



Drinking Water Surveillance Program

**NIAGARA FALLS
WATER TREATMENT
PLANT**

Annual Report 1988



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NIAGARA FALLS
WATER TREATMENT PLANT

DRINKING WATER SURVEILLANCE
PROGRAM

ANNUAL REPORT 1988

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

NIAGARA FALLS WATER TREATMENT PLANT

1988 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. Currently, 52 plants are being monitored.

The Niagara Falls Water Treatment Plant is a conventional treatment plant which treats water from the Niagara River via the Welland River. The treatment process consists of screening, coagulation, flocculation, sedimentation, filtration and disinfection. Powdered Activated Carbon is added when necessary to control taste and odour. This plant has a design capacity of $146 \times 1000 \text{ m}^3/\text{day}$ and serves a population of approximately 69,000.

Water samples from the raw, treated and three distribution sites were taken on a monthly basis and analyzed for approximately 160 parameters. Parameters were divided into the following groups Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organics (Chloroaromatics, Chlorophenols, Pesticide and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analysed in June and November only.

A summary of results is shown in Table 1.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below any applicable health related ODWOS.

Of approximately 110 Organic parameters tested for on a monthly basis, none exceeded health related guidelines.

During 1988 the DWSP sampling results indicated that the Niagara Falls Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP

SUMMARY TABLE BY SCAN

SCAN	RAW		TREATED		SITE 1		SITE 2		SITE 3						
	TESTS	POSITIVE	TESTS	POSITIVE	TESTS	POSITIVE	TESTS	POSITIVE	TESTS	POSITIVE					
BACTERIOLOGICAL	40	39	97	44	18	40	31	7	22	37	7	18	40	8	20
CHEMISTRY (FLD)	36	36	100	72	72	100	106	106	100	112	112	100	73	73	100
CHEMISTRY (LAB)	246	199	80	233	161	69	321	254	79	357	286	80	393	326	82
METALS	265	137	51	288	122	42	423	222	52	470	233	49	517	292	56
CHLOROHYDRAICS	154	0	0	166	0	0	126	0	0	140	0	0	154	0	0
CHLOROPHENOLS	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0
PAH	187	0	0	170	0	0	0	0	0	0	0	0	0	0	0
PESTICIDES & PCB	375	0	0	396	0	0	294	0	0	328	0	0	362	0	0
PHENOLICS	12	4	33	12	3	25	0	0	0	0	0	0	0	0	0
SPECIFIC PESTICIDES	56	0	0	56	0	0	0	0	0	0	0	0	0	0	0
VOLATILES	315	1	0	316	45	14	230	33	14	260	39	15	288	40	13
TOTAL	1698	416	1767	421	1531	622	1704	677	1827	739	739	1827	739	739	1827

NO HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
 A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM
NIAGARA FALLS WATER TREATMENT PLANT
1988 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. Currently, 52 plants are being monitored.

The DWSP was initiated at the Niagara Falls Water Treatment Plant in the spring of 1986. Annual reports were published for 1986 (ISBN 0-7729-2564-x) and 1987 (ISSN 0839-8925).

This report contains information and results for 1988.

PLANT DESCRIPTION

The Niagara Falls Water Treatment Plant is a conventional treatment plant which treats water from the Niagara River via the Welland River. The process consists of screening, coagulation, flocculation, sedimentation, filtration and disinfection. Powdered Activated Carbon (PAC) is added when necessary to control taste and odour. This plant has a design capacity of $146 \times 1000 \text{ m}^3/\text{day}$ and

flows on day of sampling ranging from 44 x 1000 m³/day to 140 x 1000 m³/day. The plant serves a population of approximately 69,000.

The plant location is shown in Figure 1. Plant Process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

METHODS

Water samples were obtained from five DWSP approved locations;

- i) Plant Raw - The water originated from the screen well prior to chlorination and was sampled through a stainless steel pump and sample lines. The sample tap is located in the plant laboratory.
- ii) Plant Treated - The water originated from the highlift discharge after addition of all treatment chemicals and was sampled through a stainless steel line. The sample tap is located in the plant laboratory.
- iii) Distribution System - Site 1 - This house is approximately 3.1 kilometers from the plant. Water was sampled through copper plumbing from the basement laundry tap.
- iv) Distribution System - Site 2 - This house is approximately 11.9 kilometers from the plant. Water was sampled through copper plumbing from the

basement laundry tap.

- v) Distribution System - Site 3 - This house is approximately 6.1 kilometers from the plant. Water was sampled through copper plumbing from the kitchen sink tap.

Sample lines in the plant were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At each distribution system location two types of samples were obtained: a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples are used to make an assessment of the amount by which the levels inorganic compounds and metals may be changed on standing due to leaching from (or deposition on) the plumbing system. The only analyses carried out on the standing samples therefore, are General Chemistry and Metals. The free flow sample represented fresh water from the distribution main that had been flowing at the sample tap for five minutes before the sample was taken.

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration. The retention time was calculated by dividing the volume of water between the two sampling points by the sample day flow. For

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

NIAGARA FALLS WATER TREATMENT PLANT

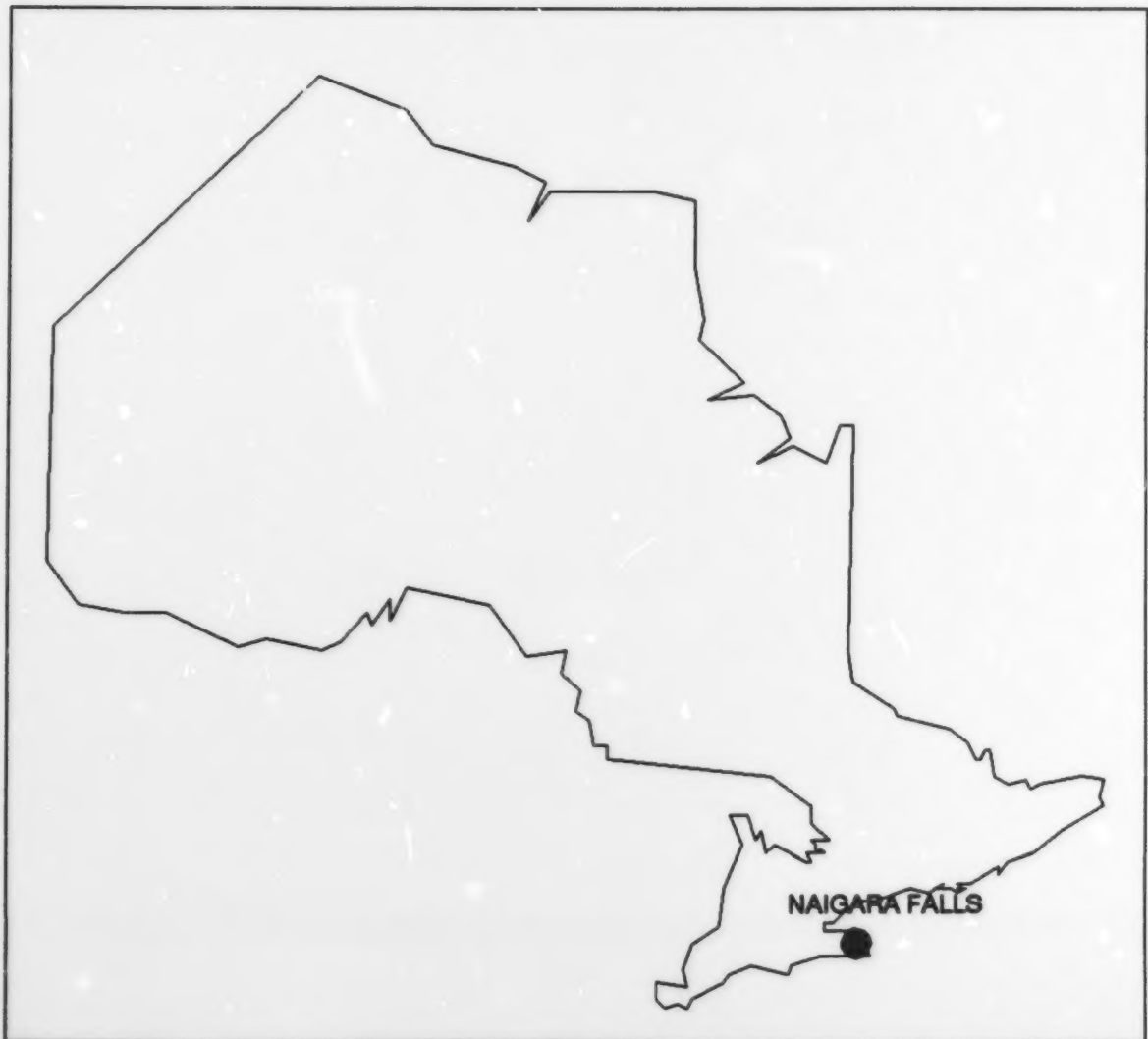


FIGURE 2
NIAGARA FALLS WATER TREATMENT PLANT

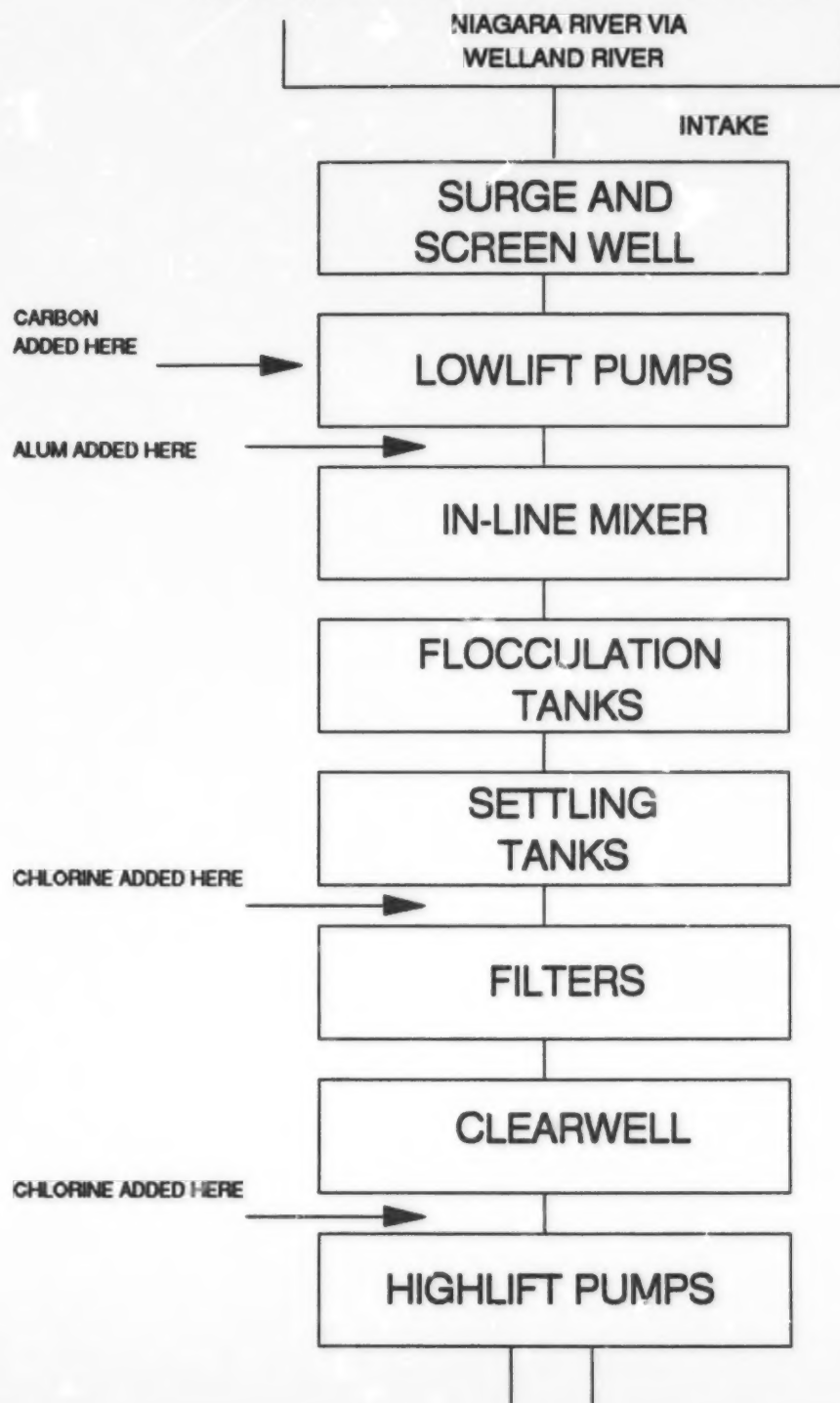


TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

NIAGARA FALLS WATER SUPPLY SYSTEM

LOCATION: 3599 MACKLEM STREET
NIAGARA FALLS, ONTARIO
L2G 6C7
(416-295-4831)

SOURCE: RAW WATER SOURCE - NIAGARA RIVER VIA
WELLAND RIVER

RATED CAPACITY: 145.5 (1000 M³/DAY)

OPERATION: MUNICIPALITY

PLANT SUPERINTENDENT: H. HODGSON

MINISTRY REGION: WEST CENTRAL

DISTRICT OFFICER: MR. B. CREAMER

MUNICIPALITY
SERVED

CITY OF NIAGARA FALLS

POPULATION

68,425

example, if it was determined that the retention time within the plant was five hours then there would be a five hour interval between the raw and treated sampling. Similarly if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner.

Sample day flow, treatment chemical dosages and Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP database as submitted.

RESULTS

Water at the Niagara Falls Water Treatment Plant was sampled for approximately 160 parameters on a monthly basis. The Specific Pesticides and Chlorophenols scans were sampled in June and November only. Polynuclear Aromatic Hydrocarbons and Phenolics are only analysed in the raw and treated water at the plant. As a result of an unforeseen emergency the laboratory capacity was exceeded and analysis for volatiles could not be carried out when the samples were received. Since analysis for volatiles is no longer valid after four weeks of storage, volatile results for February are not available.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analysed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameteres analysed in the DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters. These are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS) recently published (ISBN 0-7729-4461-X) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Although some of the parameters measured on DWSP may be present in the raw and treated water as a result of pollution, many of the compounds detected are naturally occurring or are treatment by-products.

Plant operational personnel address occurrences of taste and odour or biological water quality parameters. The DWSP does not assess these aspects of the water supply.

As stated under Results, traces do not indicate quantifiable values, as defined by established MOE Laboratory analytical reporting protocols. While they can be useful in trend analysis or confirmation of the presence of a specific contaminant that is

repeatedly detected at these levels, the occasional finding of a trace level of a contaminant is not considered to be significant.

DISCUSSION OF GUIDELINES AND LIMITS THEREFORE, IS ONLY CONDUCTED ON POSITIVE RESULTS.

Bacteriology

Positive results for the Bacteriology scan were present eighteen times in the treated water, seven times in the Site 1 water, seven times in the Site 2 water and eight times in the Site 3 water. The positive parameters were Standard Plate Count, Total Coliform and/or Total Coliform Background.

Coliforms were detected by the membrane filter method in the May treated water and Site 3 water. The ODWO of 5 counts/100mL was not exceeded.

Standard Plate Count is a test used to supplement routine analysis for Coliform bacteria. The limit for Standard Plate Count (at 35°C after 48 hours) in the ODWO is 500 organisms/mL based on a geometric mean of 5 or more samples. High Standard Plate Counts were present in the July, August, October and November treated water samples.

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological

quality; the routine monitoring program usually requires the taking of multiple samples in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples. Further, bacteriological limits were developed in acknowledgement that the presence of coliforms may be detected due to their non-uniform distribution throughout the distribution system and the fact that their enumeration is subject to considerable variation. For these reasons, the occasional finding of low numbers of coliform organisms is not unexpected. Routine bacteriological monitoring, as outlined in the ODWOs is carried out by the operating authority.

Inorganic and Physical Parameters

Laboratory and Field Chemistry

The results for Laboratory and Field Chemistry scans were below any applicable health related ODWOs .

It is desirable that the Temperature of drinking water be less than 15°C; the palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water. The desired ODWO was exceeded

eleven times in the treated water and free flow distributed water.

The ODWO indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters provides an acceptable balance between corrosion and incrustation. Water supplies with a hardness greater than 200 mg/L are considered poor, and would possess a tendency to form scale deposits and result in excessive soap consumption. The hardness values for the Niagara Falls water ranged from 121 mg/L to 138 mg/L as CaCO_3 .

The Langelier Index is used extensively in estimating the corrosion potential of water. An increasingly negative index indicates the increasing possibility of corrosion. It is considered sound engineering practice to maintain a slightly positive Langelier Index. The Langelier Index for Niagara Falls is consistently positive.

Metals

The results reported for the Metal scan were below any applicable health related ODWOs.

Elevated levels of Copper, Nickel, Lead and Zinc were detected in the standing samples as compared to the free flow samples thus, indicating that these metals were leached from the household plumbing as the water stood overnight. Although the Langelier Index indicates minimal potential for corrosion some metals will

be leached in standing samples in most supplies. Further, Site 3 had higher levels of Copper, Iron, Manganese, Lead and Zinc in both the standing and free flow samples than either of the other two sites.

The Beryllium value of .22 ug/L in the November Site 3 water sample is marginally greater than the USSR Maximum Permissible Concentration of .20 ug/L for Beryllium in drinking water.

At present, there is no evidence that Aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of residual Aluminum in the treated water is important to indicate the efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 100 ug/L as Al in the water leaving the plant to avoid problems in the distribution system. Aluminum values exceeded the ODWO operational guideline five times in the treated water.

Organic Parameters

Chloroaromatics

Results of the Chloroaromatics scan showed that one parameter was detected:

Hexachlorobutadiene

Hexachlorobutadiene was detected at trace levels, once in the Site

1 water and once in the Site 3 water.

Review of these results, along with information from other water supplies on DWSP, would indicate that certain Chloroaromatics appear more frequently in the treated water than in the raw and almost always only at trace levels. These occurrences could possibly be due to a reaction of chlorine with organics present in the water.

Chlorophenols

Results of the Chlorophenol scan showed that no Chlorophenols were detected.

Pesticides and PCB (Polychlorinated Biphenyl)

Results of the Pesticides and PCB scan showed that no PCBs were detected and that two pesticides were detected:

Alpha BHC

Lindane

There are several isomers of BHC (Benzene Hexachloride); gamma BHC is the active ingredient of the pesticide Lindane, while alpha BHC is the isomer predominantly found in surface waters of the Great Lakes basin.

Alpha BHC was detected at trace levels, nine times in the raw water, eight times in the treated water, seven times in the Site

1 water, five times in the Site 2 water and five times in the Site 3 water.

Lindane was detected at trace levels, once in the Site 1 water, once in the Site 2 water and once in the distribution system Site 3 water.

Specific Pesticides

Results of the Specific Pesticide scan showed that no specific pesticides were detected.

Phenolics

The maximum desirable concentration of phenolic substances in drinking water is 2.0 ug/L. This limit has been set primarily to prevent the occurrence of undesirable tastes and odours, particularly in chlorinated water. Phenolics were detected in the raw water at quantifiable levels ranging from 1.0 ug/L to 1.4 ug/L and in the treated water at 1.0 to 2.2 ug/L. Phenolics were also detected at trace levels, five times in the raw water and six times in the treated water. Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes.

Polynuclear Aromatic Hydrocarbons (PAH)

Results of the PAH scan showed that no PAHs were detected.

Volatiles

Results of the Volatile scan showed that nine parameters, other than Trihalomethanes (THMs), were detected:

Benzene

Toluene

Ethylbenzene

Para & Meta-Xylene

Ortho-Xylene

Styrene

1,1,1-Trichloroethane

1,2-Dichlorobenzene

Benzene was detected at trace levels, once in the raw water, twice in the Site 2 water and once in the Site 3 water.

Toluene was detected at trace levels, once in the raw water, five times in the treated water, three times in the Site 1 water, six times in the Site 2 water and four times in the Site 3 water. The detection of toluene at low, trace levels is a laboratory artifact derived from the analytical methodology. The purge-and-trap analytical technique depends on the purging of the volatile organics in the water sample with helium gas onto a Tenax trapping column. The volatile materials are subsequently thermally desorbed, separated and quantified. Tenax, a toluene-like polymeric material, tends to decompose sporadically upon heating into toluene and other

aromatic componenets (ethylbenzene and xylene) giving instrument blanks in the order of 0.05 ug/L.

The detected trace levels of Styrene are also considered to be laboratory artifacts due to the outgassing of monomeric styrene from the polystyrene shipping containers. The sporadic background levels from this source are in the order of 0.05 ug/L.

Ethylbenzene was detected at trace levels, once in the raw water, six times in the treated water, three times in the Site 1 water, seven times in the Site 2 water and six times in the Site 3 water.

Para-Xylene (P-Xylene) was detected at trace levels, once in the Site 1 water and once in the Site 2 water.

Meta-Xylene (M-Xylene) was detected at trace levels, once in the raw water, once in the treated water, twice in the Site 1 water and nce in the Site 2 water.

Ortho-Xylene (O-Xylene) was detected at trace levels, twice in the treated water, twice in the Site 1 water and once in the Site 2 water.

The volatiles listed above were typically found on an occasional basis at other water supplies included on the DWSP usually at trace levels.

1,1,1-Trichloroethane was detected in the September raw water at 0.26 ug/L. The United States Environmental Protection Agency (EPA) has a Maximum Contaminant Level (MCL) for 1,1,1,-Trichloroethane in drinking water of 200 ug/L. It was also detected at trace levels once in the raw water and once in the Site 3 water.

1,2-Dichlorobenzene was detected at a trace level, once in the Site 3 water.

THMs are known to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs.

Chloroform, Chlorodibromomethane, Dichlorobromomethane and Total THMs were detected in all treated waters. Bromoform was detected at trace levels. All Total THM occurrences, ranging from 14.6 ug/L to 45 ug/L, were below the ODWO of 350 ug/L.

Raw and treated water quality from 1986 to 1988 has remained consistent.

CONCLUSIONS

The Niagara Falls Water Treatment Plant for the sample year of 1988 produced good quality water at the plant and this was generally maintained in the distribution system.

No health related guidelines, for organic or inorganic parameters, were exceeded during 1986, 1987 and 1988.

RECOMMENDATIONS

One recommendation can be made:

- 1) The reason for elevated Aluminum levels in some treated water samples should be investigated.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP SAMPLE DAY CONDITIONS FOR 1968

SAMPLE DAY CONDITIONS

TREATMENT CHEMICAL DOSAGES (MG/L)

DATE	RETENTION TIME(MRS)	FLOW (1000G3)	TASTE & ODOUR	ACTIVATED CARBON POWDER	COAGULATION ALUM LIQUID	PRE-CHLORINATION		POST-CHLORINATION	
						CHLORINE	CHLORINE	CHLORINE	CHLORINE
JAN 12	7.0	44.3	.	.	12.00	.90	.	.20	.
FEB 09	7.0	50.6	.	.	10.36	.90	.	.20	.
MAR 15	9.0	55.0	.	.	11.14	.90	.	.20	.
APR 12	7.5	60.0	.	.	11.13	.90	.	.20	.
MAY 10	6.0	70.0	.	.	10.00	.20	.	.90	.
JUN 14	4.0	125.0	.	.	9.00	1.00	.	.20	.
JUL 12	3.5	140.5	10.00	.	11.48	1.10	.	.20	.
AUG 09	4.0	100.0	.38	.	7.85	1.30	.	.20	.
SEP 13	6.0	67.2	.	.	9.00	.20	.	1.20	.
OCT 12	10.2	49.5	.	.	12.00	1.20	.	.20	.
NOV 15	11.0	46.4	.	.	10.00	1.00	.	.20	.
DEC 06	6.0	70.0	.	.	12.00	1.00	.	.20	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1985)

SCAN	PARAMETER	RAW		TREATED		SITE 1		SITE 2		SITE 3	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	12	11	0	.	.	.	.	.	.	.
	STANDARD PLATE CNT MF	6	6	0	12	11	0	8	7	0	11
	P/A BOTTLE	.	.	.	8	0	0	7	0	0	7
	TOTAL COLIFORM MF	11	11	0	12	1	0	8	0	0	11
	T COLIFORM BCKGRD MF	11	11	0	12	6	0	8	0	10	11
*TOTAL SCAN BACTERIOLOGICAL		40	39	0	44	18	0	31	7	0	37
*TOTAL GROUP BACTERIOLOGICAL		40	39	0	44	18	0	31	7	0	37
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	12	12	0	18	18	0	19
	FLD CHLORINE FREE	.	.	.	12	12	0	16	16	0	13
	FLD CHLORINE (TOTAL)	.	.	.	12	12	0	18	18	0	20
	FLD PH	12	12	0	12	12	0	18	18	0	20
	FLD TEMPERATURE	12	12	0	12	12	0	18	18	0	20
	FLD TURBIDITY	12	12	0	12	12	0	18	18	0	20
*TOTAL SCAN CHEMISTRY (FLD)		36	36	0	72	72	0	106	106	0	112
CHEMISTRY (LAB)	ALKALINITY	12	12	0	11	11	0	18	18	0	20
	CALCIUM	12	12	0	12	12	0	18	18	0	20
	CYANIDE	12	0	0	12	0	0	9	0	0	10
	CHLORIDE	12	12	0	11	11	0	18	18	0	20
	COLOUR	12	1	11	11	0	8	18	0	16	20

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1968)

SCAM CHEMISTRY (LAB)	PARAMETER	SITE		RAW		TREATED		SITE 1		SITE 2		SITE 3	
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
SCAM CHEMISTRY (LAB)	CONDUCTIVITY	12	12	0	11	11	0	18	18	0	20	22	0
	FLUORIDE	12	12	0	11	11	0	18	18	0	20	21	0
	HARDNESS	12	12	0	12	12	0	18	18	0	20	22	0
	IONICAL	12	6	0	12	6	0	18	6	0	20	10	0
	LANGELIERS INDEX	12	12	0	11	11	0	18	18	0	20	22	0
	MAGNESIUM	12	12	0	12	12	0	18	18	0	20	22	0
	SODIUM	12	12	0	12	12	0	18	18	0	20	22	0
	AMMONIUM TOTAL	12	12	0	11	4	7	18	12	6	20	22	0
	NITRITE	12	4	8	11	1	8	18	4	12	16	19	3
	TOTAL NITRATES	12	11	1	11	10	1	18	16	2	2	22	4
	NITROGEN TOT KJELD	12	12	0	12	11	0	18	18	0	18	20	2
	PH	12	12	0	11	11	0	18	18	0	20	22	0
	PHOSPHORUS FIL REACT	12	7	3	11	1	8	-	-	-	-	-	-
	PHOSPHORUS TOTAL	12	8	4	11	0	6	-	-	-	-	-	-
	SULPHATE	6	6	0	6	6	0	6	6	0	8	10	0
	TURBIDITY	12	12	0	11	8	3	18	12	6	16	21	1
*TOTAL SCAM CHEMISTRY (LAB)		246	199	27	233	161	41	321	254	42	357	393	42
METALS	SILVER	11	0	5	12	0	6	18	0	9	20	22	0
	ALUMINUM	11	11	0	12	12	0	18	18	0	20	22	0
	ARSENIC	11	2	9	12	0	12	18	0	18	20	22	0
	BARIUM	11	11	0	12	12	0	18	18	0	20	22	0
	BORON	11	9	2	12	11	1	18	17	1	20	22	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1968)

SCAM	PARAMETER	SITE			TREATED			SITE 1			SITE 2			SITE 3		
		RAW		TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE		TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE		TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE		TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE		TOTAL POSITIVE TRACE
METALS	BERYLLIUM	11	0	9	12	0	9	18	0	12	20	0	12	22	0	17
	CADMIUM	11	0	6	12	0	0	18	0	6	20	0	18	22	0	12
	COBALT	11	1	10	12	0	12	18	0	18	20	0	20	22	0	22
	CHROMIUM	11	5	6	12	4	8	18	9	9	20	6	14	22	16	6
	COPPER	11	8	3	12	3	9	18	17	1	20	20	0	22	22	0
	IRON	11	6	5	12	0	9	18	0	10	20	0	14	22	12	10
	MERCURY	12	4	5	12	4	4	9	3	0	10	1	1	11	4	6
	MANGANESE	11	11	0	12	7	5	18	11	7	20	11	9	22	21	1
	MOLYBDENUM	11	11	0	12	12	0	18	18	0	20	20	0	22	22	0
	NICKEL	11	2	6	12	1	7	18	5	9	20	8	10	22	11	7
	LEAD	11	4	6	12	0	7	18	14	4	20	10	10	22	13	9
	ANTIMONY	11	10	1	12	10	2	18	16	2	20	16	4	22	18	4
	SELENIUM	11	0	9	12	0	11	18	0	16	20	0	19	22	0	20
	STRONTIUM	11	11	0	12	12	0	18	18	0	20	20	0	22	22	0
	TITANIUM	11	11	0	12	11	1	18	16	2	20	17	3	22	20	2
	THALLIUM	11	0	7	12	0	2	18	0	6	20	0	10	22	0	7
	URANIUM	11	11	0	12	11	1	18	17	1	20	20	0	22	21	1
	VANADIUM	11	2	9	12	7	5	18	9	9	20	10	10	22	2	20
	ZINC	11	7	4	12	5	7	18	16	2	20	16	4	22	22	0
*TOTAL SCAM METALS		265	137	102	288	122	118	423	222	142	470	233	189	517	292	179
*TOTAL GROUP INORGANIC & PHYSICAL		547	372	129	593	355	159	850	582	184	939	631	232	983	691	221
CHLOROMANATICS	HEXACHLOROCYCLOPENTADIENE	11	0	0	12	0	0	9	0	1	10	0	0	11	0	1

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1903)

SCAM	PARAMETER	SITE			TREATED			SITE 1			SITE 2			SITE 3		
		TOTAL	POSITIVE TRACE	RAW	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE		
CHLOROBIPHENYLS	123 TRICHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	1234 T-CHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	1235 T-CHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	124 TRICHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	1245 T-CHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	135 TRICHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	NCB	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	HEXACHLOROTRIENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	OCTACHLOROTRIENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	PENTACHLOROBENZENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
CHLOROBIPHENYLS	234 TRICHLOROTOLUENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	245 TRICHLOROTOLUENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	245 TRICHLOROTOLUENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
	264 TRICHLOROTOLUENE	11	0	0	12	0	0	9	0	0	10	0	11	0	0	
TOTAL SCAM CHLOROBIPHENYLS		154	0	0	168	0	0	126	0	1	140	0	154	0	1	
CHLOROBIPHENOLS	234 TRICHLOROBIPHENOL	2	0	0	2	0	0	2	0	0	2	0	2	0	0	
	2345 T-CHLOROBIPHENOL	2	0	0	2	0	0	2	0	0	2	0	2	0	0	
	2356 T-CHLOROBIPHENOL	2	0	0	2	0	0	2	0	0	2	0	2	0	0	
	245-TRICHLOROBIPHENOL	2	0	0	2	0	0	2	0	0	2	0	2	0	0	
	246-TRICHLOROBIPHENOL	2	0	0	2	0	0	2	0	0	2	0	2	0	0	
	PENTACHLOROBIPHENOL	2	0	0	2	0	0	2	0	0	2	0	2	0	0	
TOTAL SCAM CHLOROBIPHENOLS		12	0	0	12	0	0	12	0	0	12	0	12	0	0	

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1968)

SCAM	PARAMETER	SITE		RAW		TREATED		SITE 1		SITE 2		SITE 3	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
PAN	PHENANTHRENE	11	0	0	10	0	0	0	0	0	0	0	0
	ANTHRACENE	11	0	0	10	0	0	0	0	0	0	0	0
	FLUORANTHRENE	11	0	0	10	0	0	0	0	0	0	0	0
	PYRENE	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(A)ANTHRACENE	11	0	0	10	0	0	0	0	0	0	0	0
	CHRYSENE	11	0	0	10	0	0	0	0	0	0	0	0
	DIBETH. BENZ(A)ANTHR	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(K) PYRENE	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(J) FLUORANTHRENE	0	0	0	0	0	0	0	0	0	0	0	0
	BENZ(B) FLUORANTHRENE	11	0	0	10	0	0	0	0	0	0	0	0
	PERYLENE	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(K) FLUORANTHRENE	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(A) PYRENE	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(G,N,I) PERYLENE	11	0	0	10	0	0	0	0	0	0	0	0
	DIBENZ(A,H) ANTHRAC	11	0	0	10	0	0	0	0	0	0	0	0
	INDENO(1,2,3-C,D) PY	11	0	0	10	0	0	0	0	0	0	0	0
	BENZ(B) CHRYSENE	11	0	0	10	0	0	0	0	0	0	0	0
	ANTHRANTHRENE	0	0	0	0	0	0	0	0	0	0	0	0
	CORONENE	11	0	0	10	0	0	0	0	0	0	0	0
*TOTAL SCAM PAN		107	0	0	170	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	11	0	0	12	0	0	9	0	0	10	0	0
	ALPHA BHC	11	0	9	12	0	8	9	0	7	10	0	5

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE		TREATED		SITE 1		SITE 2		SITE 3	
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL
PESTICIDES & PCB	BETA BHC	11	0	0	12	0	0	9	0	0	11
	LINDANE	11	0	0	12	0	1	10	0	1	11
	ALPHA CHLORDANE	11	0	0	12	0	0	10	0	0	11
	GAMMA CHLORDANE	11	0	0	12	0	0	10	0	0	11
	DIELDRIN	11	0	0	12	0	0	9	0	0	11
	METHOXYCHLOR	11	0	0	12	0	0	9	0	0	11
	ENDOSULFAM 1	11	0	0	12	0	0	9	0	0	11
	ENDOSULFAM 11	11	0	0	12	0	0	9	0	0	11
	ENDRIN	11	0	0	12	0	0	9	0	0	11
	ENDOSULFAM SULPHATE	11	0	0	12	0	0	9	0	0	11
	HEPTACHLOR EPOKIDE	11	0	0	12	0	0	9	0	0	11
	HEPTACHLOR	11	0	0	12	0	0	9	0	0	11
	MIREX	11	0	0	12	0	0	9	0	0	11
	ORYCHLORDANE	11	0	0	12	0	0	9	0	0	11
	OPDIT	11	0	0	12	0	0	9	0	0	11
	PCB	11	0	0	12	0	0	9	0	0	11
	DDO	11	0	0	12	0	0	9	0	0	11
	PPDVE	11	0	0	12	0	0	9	0	0	11
	PPDIT	11	0	0	12	0	0	9	0	0	11
	AMETRIE	12	0	0	12	0	0	9	0	0	11
	ATRAZINE	12	0	0	12	0	0	9	0	0	11
	ATRAZONE	12	0	0	12	0	0	9	0	0	11
	CYMAZINE	12	0	0	12	0	0	9	0	0	11
	DES ETHYL ATRAZINE	6	0	0	6	0	0	3	0	0	5
	DES ETHYL SIMAZINE	6	0	0	6	0	0	3	0	0	5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1968)

SCAN	PARAMETER	SITE		RAW		TREATED		SITE 1		SITE 2		SITE 3	
		TOTAL POSITIVE TRACE	RAW	TOTAL POSITIVE TRACE	TREATED	TOTAL POSITIVE TRACE	RAW	TOTAL POSITIVE TRACE	RAW	TOTAL POSITIVE TRACE	RAW	TOTAL POSITIVE TRACE	
PESTICIDES & PCB	PRONETONE	12	0	0	12	0	0	9	0	0	10	0	11
	PROPAZINE	12	0	0	12	0	0	9	0	0	10	0	11
	PROMETRYNE	12	0	0	12	0	0	9	0	0	10	0	11
	METRIBUZIN	12	0	0	12	0	0	9	0	0	10	0	11
	SINAZINE	12	0	0	12	0	0	9	0	0	10	0	11
	ALACHLOR	12	0	0	12	0	0	9	0	0	10	0	11
METOLACHLOR	12	0	0	12	0	0	9	0	0	10	0	11	
*TOTAL SCAN PESTICIDES & PCB		375	0	9	396	0	8	294	0	8	328	0	362
PHENOLICS	PHENOLICS	12	4	5	17	3	6	.	.	.	.	.	.
	*TOTAL SCAN PHENOLICS	12	4	5	12	3	6	0	0	0	0	0	0
SPECIFIC PESTICIDES	TORAPRENE	0	0	0	0	0	0	0	0	0	0	0	0
	2,4,5-T	2	0	0	2	0	0	.	.	.	.	.	.
	2,4-D	2	0	0	2	0	0	.	.	.	.	.	.
	2,4-DB	2	0	0	2	0	0	.	.	.	.	.	.
	2,4 D PROPIONIC ACID	2	0	0	2	0	0	.	.	.	.	.	.
	DICAMBA	2	0	0	2	0	0	.	.	.	.	.	.
	PICHLORAN	0	0	0	0	0	0	.	.	.	.	.	.
	SILVEX	2	0	0	2	0	0	.	.	.	.	.	.
	DIAZINON	2	0	0	2	0	0	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1965)

SCAN	PARAMETER	SITE		TREATED		SITE 1		SITE 2		SITE 3	
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL
SPECIFIC PESTICIDES											
	DICHLOROVOS	2	0	0	2	0	0	.	.	.	.
	CHLORPYRIFOS	2	0	0	2	0	0	.	.	.	.
	ETHION	2	0	0	2	0	0	.	.	.	.
	AZINPHOS-METHYL	0	0	0	0	0	0	.	.	.	.
	MALATHION	2	0	0	2	0	0	.	.	.	.
	HEVPHOS	2	0	0	2	0	0	.	.	.	.
	METHYL PARATHION	2	0	0	2	0	0	.	.	.	.
	METHYLTRITHION	2	0	0	2	0	0	.	.	.	.
	PARATHION	2	0	0	2	0	0	.	.	.	.
	PHOSPHATE	2	0	0	2	0	0	.	.	.	.
	RELDAN	2	0	0	2	0	0	.	.	.	.
	RONNEL	2	0	0	2	0	0	.	.	.	.
	ANTHOCARS	0	0	0	0	0	0	.	.	.	.
	SEBONYL	2	0	0	2	0	0	.	.	.	.
	BUX	2	0	0	2	0	0	.	.	.	.
	CARBOFURAN	2	0	0	2	0	0	.	.	.	.
	CICP	2	0	0	2	0	0	.	.	.	.
	DIALATE	2	0	0	2	0	0	.	.	.	.
	EPTAN	2	0	0	2	0	0	.	.	.	.
	IPC	2	0	0	2	0	0	.	.	.	.
	PROPOMUR	2	0	0	2	0	0	.	.	.	.
	CARBARYL	2	0	0	2	0	0	.	.	.	.
	BUTYLATE	2	0	0	2	0	0	.	.	.	.
TOTAL SCAN SPECIFIC PESTICIDES		56	0	0	56	0	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS

SUMMARY TABLE OF RESULTS (1988)

SCAM	PARAMETER	SITE		TREATED	SITE 1		SITE 2		SITE 3	
		TOTAL	RAU		POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL
VOLATILES	BENZENE	11	0	1	11	0	0	0	0	0
	TOLUENE	11	0	1	11	1	4	0	3	0
	ETHYLBENZENE	11	0	1	11	0	6	0	3	0
	P-XYLENE	10	0	0	11	0	0	0	1	0
	M-XYLENE	11	0	1	11	0	1	0	2	0
	O-XYLENE	11	0	0	11	0	2	0	2	0
	STYRENE	3	0	2	3	0	3	1	0	1
	1,1 DICHLOROETHYLENE	11	0	0	11	0	0	0	0	0
	METHYLENE CHLORIDE	11	0	0	11	0	0	0	0	0
	1,1,2,2 DICHLOROETHYLENE	11	0	0	11	0	0	0	0	0
	1,1 DICHLOROETHANE	11	0	0	11	0	0	0	0	0
	CHLOROFORM	11	0	2	11	11	0	8	0	0
	111, TRICHLOROETHANE	11	1	1	11	0	0	0	0	0
	1,2 DICHLOROETHANE	11	0	0	11	0	0	0	0	0
	CARBON TETRACHLORIDE	11	0	0	11	0	0	0	0	0
	1,2 DICHLOROPROPANE	11	0	0	11	0	0	0	0	0
	TRICHLOROETHYLENE	11	0	0	11	0	0	0	0	0
	DICHLOROBROMOMETHANE	11	0	1	11	11	0	8	0	0
	112 TRICHLOROETHANE	11	0	0	11	0	0	0	0	0
	CHLOROETHANOL	11	0	1	11	11	0	8	0	0
	1-CHLOROETHYLENE	11	0	0	11	0	0	0	0	0
	BROMOFORM	11	0	0	11	0	11	8	0	0
	1122 T-CHLOROETHANE	11	0	0	11	0	0	0	0	0
	CHLOROBENZENE	11	0	0	11	0	0	0	0	0
	1,4 DICHLOROBENZENE	11	0	0	11	0	0	0	0	0

KEY TO TABLE 5 and 6

- A** **ONTARIO DRINKING WATER OBJECTIVES (ODWO)**
1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - 1*. MAC for Bacteriological Analyses
- Poor water quality is indicated when :
- total coliform counts > 0 < 5
 - P/A Bottle Test is present after 48 hours
 - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
 - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
 - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
2. Interim Maximum Acceptable Concentration (IMAC)
 3. Maximum Desirable Concentration (MDC)
 4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B** **HEALTH & WELFARE CANADA (H&W)**
1. Maximum Acceptable Concentration (MAC)
 2. Proposed MAC
 3. Interim MAC
 4. Aesthetic Objective (AO) (for xylenes, the AO is a total)
- C** **WORLD HEALTH ORGANIZATION (WHO)**
1. Guideline Value (GV)
 2. Tentative GV
 3. Aesthetic GV
- D** **US ENVIRONMENTAL PROTECTION AGENCY (EPA)**
1. Maximum Contaminant Level (MCL)
 2. Suggested No-Adverse Effect Level (SNAEL)
 3. Lifetime Health Advisory
 4. EPA Ambient Water Quality Criteria
- F** **EUROPEAN ECONOMIC COMMUNITY (EEC)**
1. Health Related Guideline Level
 2. Aesthetic Guideline Level
 3. Maximum Admissible Concentration (MADC)
- G** **CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE**
- H** **USSR MAXIMUM PERMISSIBLE CONCENTRATION**
- I** **NEW YORK STATE AMBIENT WATER GUIDELINE**
- N/A** **NONE AVAILABLE**

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
!PH	No Data: Sample pH Outside Valid Range
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only

PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UAL	Unreliable: Sample Age Exceeds Normal Limit
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS MTP 1968

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

RAW	TREATED	SITE 1		SITE 2		SITE 3	
		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
BACTERIOLOGICAL							
FECAL COLIFORM MF (UG/L)		DET'N LIMIT = 0		GUIDELINE = 0 (A1)			
JAN	49	.	.	.	.	.	.
FEB	19	.	.	.	.	.	.
MAR	39	.	.	.	.	.	.
APR	84	.	.	.	.	.	.
MAY	125	.	.	.	.	.	.
JUN	1	.	.	.	.	.	.
JUL	1	.	.	.	.	.	.
AUG	0	.	.	.	.	.	.
SEP	2 T48	.	.	.	.	.	.
OCT	15 T24	.	.	.	.	.	.
NOV	2 T48	.	.	.	.	.	.
DEC	160 T48	.	.	.	.	.	.
STANDARD PLATE CNT MF (UG/L)							
		DET'N LIMIT = 0		GUIDELINE = 500/ML (A1)			
JAN	10P	29	0	.	0	.	0
FEB	93	2	1	.	0	.	3
MAR	320	1	4	.	5	.	0
APR	189	2	1	.	1	.	0
MAY	1300	0	2	.	9	.	5
JUN	10P	42	14	.	89	.	7
JUL	12000	2400 >	.	.	3	.	.
AUG	520	2400 >	62	.	.	.	500
SEP	.	170 T48	18 T48	.	.	.	12
OCT	.	740 T24	.	.	2 	.	7
NOV	.	830 T48	.	.	0 	.	5

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
SITE	RAW	TREATED	SITE 1	SITE 2	SITE 3	STANDING	FREE FLOW
SITE TYPE			STANDING	STANDING	STANDING	STANDING	FREE FLOW
DEC	.	44 T48	.	.	.	1 <48>	0 <48>
P/A BOTTLE ()			DET'N LIMIT = 0	GUIDELINE = 0 (A1*)			
JAN	.	0	.	0	.	0	0
FEB	.	0	.	0	.	0	0
MAR	.	0	.	0	.	0	0
APR	.	0	.	0	.	0	0
MAY	.	0	.	0	.	0	0
JUN	.	0	.	0	.	0	0
JUL	.	0	.	0	.	0	0
AUG	.	0	.	0	.	0	0
TOTAL COLIFORM MF (UG/L)			DET'N LIMIT = 0	GUIDELINE = 5/100ML(A1)			
JAN	1400	0	.	0	.	0	0
FEB	134	0	.	0	.	0	0
MAR	326 A3C	0	.	0	.	0	0
APR	1700	0	.	0	.	0	0
MAY	3900	1	.	0	.	0	1
JUN	10P	0	.	0	.	0	0
JUL	130 A3C	0	.	0	.	0	0
AUG	200 A3C	0	.	0	.	0	0
SEP	48 A3C	0 T48	.	0 T48	.	0	0 T48
OCT	156 A3C	0 T24	.	.	.	0 T24	0 T24
NOV	100 A3C	0 A3C	.	.	.	0 T24	0 T24
DEC	3000 >	0 T48	.	.	.	0 T24	0 T24

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS MTP 1996

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

CONTINUATION SYSTEM											
SITE		SITE 1			SITE 2			SITE 3			
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
T COLIFORM BCGRD NF (UG/L)											
DET'N LIMIT = 0											
GUIDELINE = N/A											
JAN	8300	0	.	0	.	0	.	0	.	0	
FEB	282	0	.	0	.	0	.	0	.	0	
MAR	1900	0	.	0	.	0	.	0	.	0	
APR	3900	0	.	0	.	0	.	0	.	0	
MAY	7600	4	.	0	.	0	.	0	.	0	
JUN	10P	95	.	0	.	0	.	0	.	3	
JUL	6000	0	.	0	.	0	.	1600	.	0	
AUG	44000	400	.	0	.	0	.	0	.	0	
SEP	4800 >	1 T48	.	0	.	0	.	0	.	16	
OCT	4800 >	1 T24	.	0 T48	.	0 T48	.	0	.	0 T48	
NOV	4800 >	2400 >	.	.	.	.	.	0 T24	.	0 T24	
DEC	11200 A3C	0 T48	.	.	.	.	.	4 T24	.	1 T24	
			.	.	.	.	.	0 T24	.	0 T24	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS UTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1			SITE 2			SITE 3		
			STANDING	FREE FLOW	STANDING	STANDING	FREE FLOW	STANDING	STANDING	FREE FLOW	FREE FLOW
DEC		.390		.150			.250				
FLD CHLORINE (TOTAL) ()											
			DET'N LIMIT = N/A			GUIDELINE = N/A					
JAN		.500	.200	.300	.250		.300			.300	.300
FEB		.500	.200	.400	.300		.400			.400	
MAR		.500	.300	.400	.300		.400			.400	
APR		.400	.250	.350	.250		.400			.400	.090
MAY		.440	.200	.400	.300		.300			.300	.090
JUN		.540	.200	.400	.250		.350				
JUL		.440			.150		.200				
AUG		.400	.150	.200							
SEP		.400	.100	.200							
OCT		.530			.100		.250				
NOV		.400			.100		.250				
DEC		.520	.150	.300	.090		.300				
FLD PH (MG/L)											
			DET'N LIMIT = N/A			GUIDELINE = 6.5-8.5(AA)					
JAN	8.100	7.500	7.600	7.500	7.400		7.000		7.600	7.600	7.600
FEB	7.700	7.400	7.600	7.500	7.000		7.400		7.500	7.500	7.500
MAR	7.800	7.400	7.600	7.500	7.400		6.800		7.500	7.500	7.500
APR	7.800	7.600	7.700	7.500	7.500		7.400		7.500	7.500	7.500
MAY	7.900	7.800	7.600	7.500	7.300		7.500		7.500	7.500	7.500
JUN	8.000	7.500	7.600	7.400	7.400		7.400		7.500	7.500	7.500
JUL	8.200	7.600			7.600		7.500				
AUG	8.000	7.800	7.500	7.500					7.500	7.500	7.500
SEP	8.200	7.600	7.800	7.600					7.500	7.500	7.500

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1983

WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
SITE TYPE	RAW TREATED	SITE 1		SITE 2		SITE 3	
		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FLD TEMPERATURE (UG/L)							
DET'N LIMIT = N/A							
GUIDELINE = 15 (A1)							
OCT	8,000	7,700	.	7,600	7,300	7,500	7,500
NOV	6,700	7,700	.	7,300	7,500	7,500	7,500
DEC	8,000	7,600	7,500	7,500	7,500	7,500	7,500
FLD TURBIDITY (UG/L)							
DET'N LIMIT = N/A							
GUIDELINE = 1.0 (A1)							
JAN	1,500	2,700	17,000	5,000	13,000	2,000	13,500
FEB	2,000	1,000	14,000	5,000	11,000	3,000	10,500
MAR	300	5,000	12,000	6,000	9,000	2,000	14,000
APR	2,000	3,000	12,000	4,000	13,000	2,000	13,000
MAY	6,500	7,900	16,000	8,000	12,000	7,000	13,500
JUN	16,000	16,000	17,500	14,000	17,600	14,500	17,000
JUL	20,000	15,000	.	.	19,000	21,000	.
AUG	24,600	25,600	20,500	22,500	.	.	22,000
SEP	20,100	20,000	22,000	20,000	.	.	19,000
OCT	16,000	16,000	.	.	17,000	16,000	18,000
NOV	8,700	11,000	.	.	15,000	10,000	16,500
DEC	5,000	5,000	16,000	8,500	13,000	6,000	15,000
FLD TURBIDITY (UG/L)							
DET'N LIMIT = N/A							
GUIDELINE = 1.0 (A1)							
JAN	8,500	.180	.140	.140	.210	.160	.460
FEB	5,000	.200	.120	.130	.400	.300	.270
MAR	1,600	.100	.110	.110	.170	.110	.270
APR	2,100	.140	.160	.200	.200	.160	.350
MAY	1,200	.150	.110	.160	.300	.350	.450
JUN	1,400	.160	.260	.240	.350	.350	.600
JUL	1,000	.180	.	.	.360	.320	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

SITE TYPE	RAW	TREATED	WATER TREATMENT PLANT						DISTRIBUTION SYSTEM					
			SITE 1			SITE 2			SITE 3			FREE FLOW		
			STANDING	FREE FLOW	STANDING	STANDING	FREE FLOW	STANDING	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG	1,300	.210	.310	.260	.	.	.	.	.510	.	.	.	.280	.
SEP	2,300	.290	.360	.310	.	.	.	.	.320	.	.	.	.300	.
OCT	13,000	.220	.	.	.550	.330	.330	.450	.450	.330	.450	.450	.450	.450
NOV	12,500	.290	.	.	.460	.340	.340	.600	.600	.340	.600	.560	.560	.560
DEC	29,000	.290	.480	.360	.220	.660	.660	.770	.770	.660	.660	.660	.660	.660

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (LAB)								
ALKALINITY (UG/L)			DET'M LIMIT = .200		GUIDELINE = 30-500 (A4)			
JAN	101.700	94.200	95.400	94.500	96.900	95.700	94.600	94.300
FEB	105.600	96.600	97.400	97.200	100.700	100.000	97.900	98.300
MAR	102.500	118	96.300	97.500	98.910	97.000	96.400	97.200
APR	97.900	91.700	91.500	92.400	93.400	91.500	91.700	91.700
MAY	101.900	95.400	94.000	94.000	96.600	96.500	94.300	94.900
JUN	101.000	93.300	93.600	93.600	95.100	95.400	94.200	93.700
JUL	101.800	97.000	.	.	96.100	96.000	.	.
AUG	99.500	94.400	93.000	93.400	.	.	93.100	93.300
SEP	99.400	93.600	93.400	93.700	.	.	93.500	93.600
OCT	100.700	94.600	.	.	96.100	99.600	95.100	95.100
NOV	102.200	96.700	.	.	97.500	97.500	96.900	97.000
DEC	102.500	97.800	98.500	98.100	99.300	99.700	99.400	99.400
CALCIUM (UG/L)								
			DET'M LIMIT = .100		GUIDELINE = 100 (F2)			
JAN	38.000	38.000	39.000	37.800	38.600	38.800	37.400	38.600
FEB	39.800	40.200	40.000	40.800	38.800	39.600	39.000	39.200
MAR	36.900	38.200	37.200	36.600	36.400	37.000	37.000	36.200
APR	35.400	34.600	34.400	34.400	36.400	35.400	34.700	34.800
MAY	35.000	35.200	35.400	35.800	35.000	34.800	35.000	35.000
JUN	34.800	34.600	34.600	37.400	36.200	36.600	37.600	37.400
JUL	37.400	37.200	.	.	38.400	38.000	.	.
AUG	35.400	34.800	35.200	35.000	.	.	35.200	35.000
SEP	36.400	37.000	38.000	37.000	.	.	36.400	37.400
OCT	37.400	38.400	.	.	39.200	39.000	37.900	37.500
NOV	38.800	39.000	.	.	39.200	38.800	38.800	39.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1908

SITE		WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		FREE FLOW
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
DEC	37,400	34,200	34,200	34,400	38,400	35,800	34,400	34,600	
CHLORIDE (UG/L)									
DET'N LIMIT = .200									
GUIDELINE = 250 (A3)									
JAN	14,800	15,600	15,700	15,700	15,800	15,600	15,800	15,600	
FEB	16,000	16,700	16,800	16,700	16,800	16,600	16,700	16,600	
MAR	14,700	118	15,500	15,400	15,800	15,700	15,800	15,600	
APR	14,100	14,600	15,000	14,900	15,200	15,000	15,100	14,600	
MAY	15,000	15,900	16,000	16,100	16,200	16,000	16,100	16,000	
JUN	15,400	15,900	16,500	16,400	16,000	16,500	15,900	16,000	
JUL	15,000	17,100			17,300	16,900		16,000	
AUG	14,400	15,900	15,200	15,900			15,800	15,200	
SEP	14,700	15,800	15,800	15,700			15,900	15,600	
OCT	14,200	15,800			16,000	16,000	15,900	15,800	
NOV	14,600	15,600			15,700	15,600	15,800	15,800	
DEC	14,900	15,300	15,800	15,800	15,900	15,800	15,800	15,800	
COLOUR (UG/L)									
DET'N LIMIT = .5									
GUIDELINE = 5.0 (A3)									
JAN	3,000	1,000 <T	NOL	.500 <T	1,000 <T	1,000 <T	2,000 <T	2,000 <T	
FEB	2,000 <T	NOL	.500 <T	.500 <T	1,000 <T	.500 <T	1,500 <T	1,000 <T	
MAR	2,000 <T	118	NOL	.500 <T	1,000 <T	NOL	2,000 <T	1,500 <T	
APR	1,500 <T	NOL	.500 <T	.500 <T	.500 <T	.500 <T	1,500 <T	1,000 <T	
MAY	2,000 <T	.500 <T	.500 <T	.500 <T	.500 <T	.500 <T	1,500 <T	1,000 <T	
JUN	2,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T	1,000 <T	2,000 <T	1,500 <T	
JUL	1,500 <T	NOL			.500 <T	NOL			
AUG	1,500 <T	.500 <T	.500 <T	.500 <T			1,500 <T	1,000 <T	
SEP	1,500 <T	.500 <T	.500 <T	.500 <T			1,500 <T	1,000 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

WATER TREATMENT PLANT			DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	2,000 <T	1,000 <T	.	.	1,000 <T	1,000 <T	2,000 <T	2,000 <T
NOV	2,000 <T	.500 <T	.	.	1,000 <T	.500 <T	2,500	1,500 <T
DEC	2,000 <T	.500 <T	.500 <T	.500 <T	1,000 <T	.500 <T	2,500	2,500
CONDUCTIVITY (UG/L)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)			
JAN	294	297	299	297	304	300	303	297
FEB	307	312	313	312	313	312	314	314
MAR	291	118	294	300	296	296	300	311
APR	276	279	278	281	284	276	284	278
MAY	291	297	293	294	301	299	296	294
JUN	295	294	294	295	300	299	301	296
JUL	293	298	.	.	300	300	.	.
AUG	287	292	295	293	.	.	300	293
SEP	288	290	294	292	.	.	295	291
OCT	292	297	.	.	300	299	300	297
NOV	291	296	.	.	297	296	299	296
DEC	291	300	301	299	303	303	307	303
FLUORIDE (UG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)			
JAN	.120	.100	.100	.100	.100	.100	.115	.100
FEB	.120	.100	.100	.080	.100	.100	.100	.100
MAR	.140	.118	.140	.130	.130	.130	.120	.120
APR	.100	.100	.100	.100	.100	.100	.090	.100
MAY	.110	.100	.100	.100	.100	.100	.100	.100
JUN	.120	.110	.110	.110	.110	.110	.110	.110
JUL	.120	.120	.	.	.120	.110	.	.

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

[illegible]

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1966

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1			SITE 2			SITE 3		
			STANDING	FREE FLOW	STANDING	STANDING	FREE FLOW	STANDING	STANDING	FREE FLOW	FREE FLOW
JUN	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF	.000 MAF
JUL	.329	2.062	.	.	1.342	.	1.244	.	.	.	.
AUG	1.485	3.440	2.821	3.418	.	.	.	3.235	2.193	2.193	2.193
SEP	1.189	1.063	.164	1.446	.	.	.	1.809	1.141	1.141	1.141
OCT	.639	1.301	.	.	1.281	.	1.979	.118	.434	.434	.434
NOV	1.577	.906	.	.	1.832	.	.675	.489	3.666	3.666	3.666
DEC	1.831	3.770	6.680	5.676	3.874	.	10.310	4.286	7.965	7.965	7.965
LANGELIERS INDEX (UG/L) DET'N LIMIT = N/A GUIDELINE = N/A											
JAN	.290 MAF	.106 MAF	.052 MAF	.085 MAF	.112 MAF	.141 MAF	.089 MAF	.103 MAF	.103 MAF	.103 MAF	.103 MAF
FEB	.352 MAF	.117 MAF	.118 MAF	.146 MAF	.187 MAF	.165 MAF	.169 MAF	.123 MAF	.123 MAF	.123 MAF	.123 MAF
MAR	.291 MAF	.	.167 MAF	.163 MAF	.200 MAF	.177 MAF	.193 MAF	.174 MAF	.174 MAF	.174 MAF	.174 MAF
APR	.370 MAF	.051 MAF	.078 MAF	.061 MAF	.149 MAF	.281 MAF	.147 MAF	.054 MAF	.054 MAF	.054 MAF	.054 MAF
MAY	.457 MAF	.278 MAF	.216 MAF	.180 MAF	.260 MAF	.247 MAF	.221 MAF	.235 MAF	.235 MAF	.235 MAF	.235 MAF
JUN	.399 MAF	.177 MAF	.208 MAF	.187 MAF	.208 MAF	.234 MAF	.210 MAF	.227 MAF	.227 MAF	.227 MAF	.227 MAF
JUL	.464	.349	.	.	.298	.303	.	.	.	.	.
AUG	.373	.121	.098	.088	.	.	.116	.128	.128	.128	.128
SEP	.284	.284	.093	.104	.	.	.095	.139	.139	.139	.139
OCT	.450	.322	.	.	.387	.361	.338	.324	.324	.324	.324
NOV	.493	.159	.	.	.234	.170	.246	.190	.190	.190	.190
DEC	.398	.220	.233	.194	.301	.322	.330	.281	.281	.281	.281
MAGNESIUM (UG/L) DET'N LIMIT = .050 GUIDELINE = 30 (P2)											
JAN	8.800	8.900	8.800	8.400	8.700	8.700	8.400	8.600	8.700	8.700	8.700
FEB	9.100	9.100	9.100	9.200	8.900	8.900	8.900	9.100	9.000	9.000	9.000
MAR	8.600	9.100	8.600	8.400	8.400	8.500	8.600	8.600	8.600	8.600	8.600

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS MTP 1988

SITE TYPE	RAW	TREATED	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
			SITE 1		SITE 2		SITE 3			
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR	8.300	8.100	8.200	8.300	8.300	8.200	8.300	8.200	8.300	8.500
MAY	8.400	8.300	8.300	8.300	8.200	8.400	8.300	8.400	8.300	8.400
JUN	8.400	8.400	8.200	8.400	8.400	8.300	8.400	8.300	8.400	8.400
JUL	8.900	8.800	-	-	8.600	8.600	-	8.600	-	-
AUG	8.600	8.500	8.500	8.600	-	-	8.600	-	8.600	8.600
SEP	8.400	8.300	8.200	8.200	-	-	8.400	-	8.400	7.900
OCT	8.700	8.800	-	-	8.800	8.700	8.900	8.800	8.800	8.800
NOV	8.500	8.400	-	-	8.600	8.500	8.600	8.500	8.600	9.100
DEC	9.100	9.400	9.000	9.300	9.200	9.200	9.200	9.200	9.200	9.100
SODIUM (UG/L)										
			DET'N LIMIT = .200		GUIDELINE = 200 (C3)					
JAN	8.800	8.600	8.400	8.400	8.600	8.600	8.800	8.600	8.800	8.200
FEB	8.800	8.800	9.000	8.800	9.400	9.200	9.600	9.200	9.600	8.800
MAR	8.400	9.200	8.400	8.400	8.200	8.400	8.200	8.400	8.200	8.200
APR	7.600	7.400	7.400	7.600	7.600	7.600	7.600	7.600	7.600	7.800
MAY	8.800	8.600	8.800	8.800	8.800	8.800	9.000	8.800	9.000	8.800
JUN	9.000	8.600	8.800	8.800	8.800	9.000	8.800	9.000	8.800	8.600
JUL	8.800	8.800	-	-	8.800	8.800	-	8.800	-	-
AUG	8.400	8.600	8.400	8.400	-	-	8.400	-	8.400	8.600
SEP	8.400	8.400	8.200	8.200	-	-	8.400	-	8.400	8.400
OCT	8.400	8.400	-	-	8.500	8.300	8.300	8.300	8.300	8.300
NOV	8.400	8.400	-	-	8.600	8.400	8.200	8.400	8.200	9.000
DEC	8.400	8.400	8.400	8.000	8.400	7.400	8.400	7.400	8.400	8.200
AMMONIUM TOTAL (UG/L)										
			DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)					
JAN	.012	.010	.016	.014	.032	.010	.244	.016	.016	.016

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT

SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FEB	.014	.006 <T	.008 <T	.006 <T	.034	.006 <T	.226	.006 <T
MAR	.014	118	.060	.010	.080	.012	.302	.024
APR	.016	.006 <T	.008 <T	.008 <T	.062	.024	.406	.010
MAY	.046	.008 <T	.010	.006 <T	.064	.010	.188	.012
JUN	.026	.010	.010	.012	.020	.008 <T	.262	.010
JUL	.018	.002 <T	.	.	.020	.004 <T	.	.
AUG	.014	.002 <T	.052	.004 <T	.	.	.486	.006 <T
SEP	.024	.018	.084	.016	.	.	.254	.016
OCT	.030	.026	.	.	.034	.028	.222	.034
NOV	.010	.004 <T	.	.	.020	.006 <T	.306	.006 <T
DEC	.012	.008 <T	.028	.010	.010	.010	.288	.012
NITRITE (UG/L)								
			DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)			
JAN	.004 <T	MDL	MDL	.001 <T	MDL	MDL	.001 <T	.001 <T
FEB	.004 <T	.001 <T	.001 <T	MDL	.001 <T	MDL	.001 <T	MDL
MAR	.008	118	.015	.005	.016	.005	.009	.012
APR	.002 <T	.001 <T	.001 <T	.001 <T	.001 <T	.001 <T	.002 <T	.001 <T
MAY	.005	.001 <T	.002 <T	.001 <T	.003 <T	.002 <T	.003 <T	.003 <T
JUN	.008	.001 <T	.002 <T	.002 <T	.003 <T	.001 <T	.003 <T	.001 <T
JUL	.002 <T	.001 <T	.	.	.001 <T	.001 <T	.	.
AUG	.004 <T	.002 <T	.002 <T	.002 <T	.	.	.002 <T	.003 <T
SEP	.008	.008	.006	.006	.	.	.006	.006
OCT	.004 <T	.003 <T	.	.	.004 <T	.003 <T	.004 <T	.003 <T
NOV	.002 <T	MDL	.	.	.001 <T	.001 <T	.001 <T	.001 <T
DEC	.003 <T	.001 <T	.001 <T	.001 <T	.002 <T	.001 <T	.002 <T	.001 <T
TOTAL NITRATES (UG/L)			DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)			

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1				SITE 2				SITE 3			
			STANDING		FREE FLOW		STANDING		FREE FLOW		STANDING		FREE FLOW	
JAN	.200	.205	.200	.200	.200	.200	.215	.215	.200	.200	.625	.625	.205	.205
FEB	.300	.230	.230	.230	.210	.210	.210	.210	.200	.200	.615	.615	.230	.230
MAR	.215	.115	.205	.205	.205	.205	.240	.240	.205	.205	.760	.760	.215	.215
APR	.190	.180	.180	.180	.170	.170	.180	.180	.180	.180	.815	.815	.170	.170
MAY	.175	.180	.185	.185	.185	.185	.195	.195	.185	.185	.550	.550	.190	.190
JUN	.205	.200	.265	.265	.270	.270	.275	.275	.260	.260	.700	.700	.265	.265
JUL	.150	.140	.	.	.	.	.150	.150	.135	.135	.	.	.	.
AUG	.115	.100	.325	.325	.095 <T	.095 <T	.	.	.	.	.860	.860	.105	.105
SEP	.125	.105	.325	.325	.095 <T	.095 <T	.	.	.	.	.480	.480	.095 <T	.095 <T
OCT	.065 <T	.065 <T	.	.	.	.	.075 <T	.075 <T	.065 <T	.065 <T	.405	.405	.080 <T	.080 <T
NOV	.135	.130	.	.	.	.	.130	.130	.125	.125	.580	.580	.135	.135
DEC	.195	.195	.240	.240	.180	.180	.210	.210	.200	.200	.685	.685	.205	.205
NITROGEN TOT KJELD (UG/L)														
DET'N LIMIT = .020														
GUIDELINE = N/A														
JAN	.250	.160	.150	.150	.140	.140	.220	.220	BDL	BDL	.115	.115	BDL	BDL
FEB	.220	.150	.160	.160	.140	.140	.290	.290	.160	.160	.450	.450	.150	.150
MAR	.180	BDL	.200	.200	.130	.130	.290	.290	.110	.110	.570	.570	.170	.170
APR	.230	.170	.160	.160	.150	.150	.310	.310	.115	.115	.630	.630	.150	.150
MAY	.210	.130	.120	.120	.150	.150	.300	.300	.110	.110	.350	.350	.140	.140
JUN	.190	.140	.150	.150	.150	.150	.220	.220	.140	.140	.500	.500	.160	.160
JUL	.240	.180	.	.	.	.	.260	.260	.190	.190	.	.	.	.
AUG	.240	.190	.310	.310	.190	.190	.	.	.	.	.760	.760	.180	.180
SEP	.250	.200	.330	.330	.190	.190	.	.	.	.	.530	.530	.190	.190
OCT	.190	.140	.	.	.	.	.170	.170	.120	.120	.380	.380	.120	.120
NOV	.270	.170	.	.	.	.	.280	.280	.150	.150	.490	.490	.140	.140
DEC	.380	.150	.170	.170	.140	.140	.170	.170	.170	.170	.470	.470	.130	.130

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1983

DISTRIBUTION SYSTEM									
WATER TREATMENT PLANT									
SITE		SITE 1		SITE 2		SITE 3			
TYPE		STANDING		STANDING		STANDING			
		FREE FLOW		FREE FLOW		FREE FLOW			
		DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)					
PH (UG/L)									
JAN	8.140	7.990	7.920	7.970	7.980	8.010	7.980	7.980	7.980
FEB	8.170	7.970	7.970	7.990	8.040	8.010	8.030	7.980	7.980
MAR	8.150	118	8.050	8.050	8.090	8.060	8.080	8.070	8.070
APR	8.260	7.980	8.010	7.990	8.050	8.200	8.080	7.980	7.980
MAY	8.340	8.190	8.130	8.090	8.170	8.160	8.140	8.150	8.150
JUN	8.290	8.080	8.110	8.080	8.110	8.130	8.100	8.120	8.120
JUL	8.320	8.230	-	-	8.170	8.180	-	-	-
AUG	8.260	8.040	8.020	8.010	-	-	8.040	8.050	8.050
SEP	8.160	8.180	7.980	8.000	-	-	8.000	8.030	8.030
OCT	8.310	8.200	-	-	8.250	8.210	8.220	8.210	8.210
NOV	8.330	8.020	-	-	8.090	8.030	8.110	8.050	8.050
DEC	8.250	8.110	8.120	8.080	8.160	8.210	8.190	8.160	8.160
PHOSPHORUS FIL REACT (UG/L)									
		DET'N LIMIT = .0005		GUIDELINE = N/A					
JAN	.005	.001 <T	-	-	-	-	-	-	-
FEB	.003	NDL	-	-	-	-	-	-	-
MAR	.001 <T	118	-	-	-	-	-	-	-
APR	.002	.000 <T	-	-	-	-	-	-	-
MAY	.003	.001 <T	-	-	-	-	-	-	-
JUN	.003	.001 <T	-	-	-	-	-	-	-
JUL	NDL	NDL	-	-	-	-	-	-	-
AUG	NDL	.000 <T	-	-	-	-	-	-	-
SEP	.001 <T	.001 <T	-	-	-	-	-	-	-
OCT	.004	.004	-	-	-	-	-	-	-
NOV	.000 <T	.000 <T	-	-	-	-	-	-	-
DEC	.002	.000 <T	-	-	-	-	-	-	-

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PHOSPHORUS TOTAL (UG/L)			DET'N LIMIT = .002		GUIDELINE = .40 (F2)			
JAN	.017	BOL						
FEB	.013	BOL						
MAR	.006 <T	IIS						
APR	.012							
MAY	.013	.002 <T						
JUN	.009 <T	.004 <T						
JUL	.006 <T	.003 <T						
AUG	.003 <T	.003 <T						
SEP	.011	BOL						
OCT	.025	.002 <T						
NOV	.031	.006 <T						
DEC	.054	BOL						
SULFATE (UG/L)			DET'N LIMIT = .200		GUIDELINE = 500. (A3)			
JAN	26,150	26,440			30,160	29,680	28,260	28,290
FEB	22,970	27,080	28,500	28,510				
MAR	23,900	26,900	28,900	28,700			28,400	28,700
APR	24,500	30,100			30,500	30,600	30,000	29,700
MAY	23,500	28,500			28,000	28,000	28,000	28,000
JUN	26,500	31,500	32,500	32,500	34,000	34,000	34,000	34,500
TURBIDITY (UG/L)			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)			
JAN	7,400	.080 <T	.060 <T	.060 <T	.120	.070 <T	.240	.140 <T
FEB	5,100	.080 <T	.130	.060 <T	.500	.150	.300	.140
MAR	1,550	IIS	.150	.490	.260	.160	.260	.170

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

WATER TREATMENT PLANT

SITE TYPE	RAW	TREATED	DISTRIBUTION SYSTEM					
			SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR	2,200	.110	.310	.180	.400	.120	.400	.160
MAY	1,000	.040 <T	.050 <T	.030 <T	.160	.020 <T	.220	.150
JUN	.840	.100	.120	.070 <T	.220	.080 <T	.560	.210
JUL	1,100	.430	.	.	.320	.370	.	.
AUG	.720	.320	.360	.250	.	.	.370	.260
SEP	2,000	.410	.330	.320	.	.	.320	.420
OCT	4,000	.240	.	.	.410	.240	.450	.410
NOV	6,100	.280	.	.	.450	.200 <T	.450	.300
DEC	37,000	.410	.310	.300	.490	.610	.540	.490

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW TREATED	SITE 1		SITE 2		SITE 3	
		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
METALS							
SILVER (UG/L)		DET'M LIMIT = .020		GUIDELINE = 50. (A1)			
JAN	BOI	BOI	.020 <T	BOI	BOI	BOI	.120 <T
FEB	BOI	.020 <T	.090 <T	.030 <T	.040 <T	.030 <T	.030 <T
MAR	.130 <T	.110 <T	.090 <T	.090 <T	.060 <T	.070 <T	.070 <T
APR	.160 <T	.100 <T	.080 <T	.080 <T	.040 <T	.040 <T	.040 <T
MAY	BOI	BOI	BOI	BOI	BOI	BOI	BOI
JUN	BOI	BOI	BOI	.050 <T	.030 <T	BOI	BOI
JUL	.160 <T	.120 <T	-	-	.070 <T	.040 <T	-
AUG	.030 <T	BOI	.030 <T	BOI	-	-	BOI
SEP	.050 <T	BOI	BOI	BOI	-	-	.120 <T
OCT	BOI	.030 <T	-	-	BOI	.030 <T	.060 <T
NOV	BOI	BOI	-	-	BOI	BOI	BOI
DEC	1AW	BOI	BOI	BOI	BOI	BOI	BOI
ALUMINUM (UG/L)		DET'M LIMIT = .050		GUIDELINE = 100. (A4)			
JAN	692.520	44.080	45.240	38.280	48.720	39.440	30.160
FEB	107.880	39.440	34.800	30.160	48.720	47.560	26.680
MAR	47.560	42.920	44.080	44.080	47.560	41.760	33.640
APR	35.960	45.240	44.080	42.920	51.040	41.760	40.600
MAY	18.560	63.800	61.480	58.000	64.960	54.840	49.880
JUN	18.560	139.200	127.600	127.600	127.600	139.200	110.200
JUL	23.200	313.200	-	-	278.400	266.800	-
AUG	23.200	371.200	243.600	266.800	-	-	197.200
SEP	25.520	197.200	185.600	185.600	-	-	139.200
OCT	116.000	127.600	-	-	127.600	116.000	93.960
NOV	127.600	89.320	-	-	88.160	81.200	59.160

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW TYPE	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	1AM	61,480	64,960	60,320	62,640	58,000	45,240	44,080
DET'N LIMIT = 0.050 GUIDELINE = 50.0 (A1)								
ARSENIC (UG/L)								
JAN	1,100	.380 <T	.390 <T	.440 <T	.450 <T	.360 <T	.420 <T	.330 <T
FEB	.710 <T	.300 <T	.350 <T	.350 <T	.320 <T	.320 <T	.240 <T	.280 <T
MAR	.660 <T	.180 <T	.230 <T	.210 <T	.220 <T	.210 <T	.200 <T	.230 <T
APR	.680 <T	.400 <T	.360 <T	.370 <T	.260 <T	.270 <T	.280 <T	.460 <T
MAY	.530 <T	.320 <T	.330 <T	.350 <T	.410 <T	.330 <T	.250 <T	.400 <T
JUN	.410 <T	.080 <T	.100 <T	.100 <T	.420 <T	86L	.070 <T	.070 <T
JUL	.760 <T	.470 <T	.	.470 <T	.	.360 <T	.	.
AUG	.900 <T	.490 <T	.850 <T	.850 <T	.	.	.440 <T	.420 <T
SEP	.940 <T	.580 <T	.950 <T	.540 <T	.	.	.650 <T	.450 <T
OCT	1,400	.550 <T	.	.	.400 <T	.430 <T	.530 <T	.500 <T
NOV	.970 <T	.380 <T	.	.	.370 <T	.350 <T	.300 <T	.340 <T
DEC	1AM	.640 <T	.500 <T	.520 <T	.470 <T	.700 <T	.540 <T	.430 <T
DET'N LIMIT = 0.020 GUIDELINE = 1000. (A1)								
BARIUM (UG/L)								
JAN	24,000	20,000	20,000	20,000	20,000	19,000	20,000	19,000
FEB	23,000	21,000	22,000	20,000	21,000	21,000	20,000	20,000
MAR	24,000	20,000	23,000	19,000	21,000	20,000	20,000	20,000
APR	21,000	18,000	19,000	19,000	20,000	19,000	17,000	18,000
MAY	20,000	19,000	20,000	19,000	19,000	19,000	19,000	19,000
JUN	20,000	20,000	20,000	20,000	20,000	20,000	21,000	20,000
JUL	22,000	21,000	.	.	23,000	22,000	.	.
AUG	22,000	23,000	24,000	23,000	.	.	23,000	23,000
SEP	20,000	19,000	19,000	19,000	.	.	22,000	21,000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
	OCT	24,000							
	NOV	23,000			21,000	21,000	20,000	20,000	
	DEC	20,000	21,000	21,000	21,000	23,000	22,000	22,000	
	1AU								
BORON (UG/L)									
			DET'N LIMIT = 0.200						
			GUIDELINE = 5000. (A1)						
	JAN	24,000	21,000	24,000	24,000	22,000	21,000	23,000	
	FEB	21,000	22,000	22,000	23,000	22,000	22,000	22,000	
	MAR	25,000	24,000	22,000	24,000	23,000	24,000	25,000	
	APR	20,000 <T	19,000 <T	21,000	23,000	20,000 <T	21,000	21,000	
	MAY	22,000	21,000	25,000	21,000	20,000 <T	22,000	27,000	
	JUN	49,000	29,000	26,000	28,000	24,000	36,000	27,000	
	JUL	22,000	21,000		23,000	21,000			
	AUG	49,000	56,000	55,000			61,000	63,000	
	SEP	19,000 <T	21,000	59,000			68,000	64,000	
	OCT	50,000	41,000		34,000	45,000	46,000	45,000	
	NOV	53,000	51,000		31,000	57,000	50,000	93,000	
	DEC	1AU	52,000	52,000	54,000	32,000	55,000	56,000	
BERYLLIUM (UG/L)									
			DET'N LIMIT = 0.010						
			GUIDELINE = .20 (H)						
	JAN	.040 <T	.010 <T	.010 <T	.020 <T	.020 <T	.040 <T	.030 <T	
	FEB	.010 <T	NOL	.020 <T	.010 <T	.020 <T	NOL	.010 <T	
	MAR	.030 <T	.020 <T	.020 <T	.010 <T	.010 <T	.010 <T	.010 <T	
	APR	NOL	.040 <T	.110 <T	.030 <T	NOL	.030 <T	.160 <T	
	MAY	NOL	NOL	NOL	NOL	NOL	NOL	NOL	
	JUN	.030 <T	NOL	NOL	NOL	NOL	.040 <T	NOL	
	JUL	.030 <T	.040 <T					NOL	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
Cadmium (UG/L)								
DET'N LIMIT = 0.050								
GUIDELINE = 5.000 (A1)								
AUG	.120 <T	.030 <T	BOL	BOL	.	.	BOL	.070 <T
SEP	.060 <T	.020 <T	.150 <T	.070 <T	.	.	.150 <T	.140 <T
OCT	.040 <T	.030 <T	.	.	.050 <T	.040 <T	.160 <T	.070 <T
NOV	.130 <T	.120 <T	.	.	.070 <T	.110 <T	.040 <T	.220 <T
DEC	1AM	.160 <T	.080 <T	.050 <T	.100 <T	.050 <T	.170 <T	.140 <T
Cadmium (UG/L)								
DET'N LIMIT = 0.050								
GUIDELINE = 5.000 (A1)								
JAN	.050 <T	BOL	BOL	BOL	.120 <T	.100 <T	.120 <T	.050 <T
FEB	BOL	BOL	.060 <T	BOL	.090 <T	.050 <T	.060 <T	BOL
MAR	.060 <T	BOL	.070 <T	BOL	.050 <T	.090 <T	.070 <T	BOL
APR	.100 <T	BOL	BOL	BOL	.070 <T	BOL	BOL	BOL
MAY	BOL	BOL	BOL	BOL	.090 <T	BOL	.130 <T	BOL
JUN	.060 <T	BOL	.060 <T	BOL	.140 <T	.080 <T	.100 <T	.060 <T
JUL	.060 <T	BOL	.	.	.170 <T	.070 <T	.	.
AUG	BOL	BOL	.070 <T	BOL	.	.	.120 <T	BOL
SEP	BOL	BOL	BOL	BOL	.	.	.130 <T	BOL
OCT	BOL	BOL	.	.	.160 <T	.060 <T	.100 <T	BOL
NOV	.060 <T	BOL	.	.	.080 <T	.090 <T	BOL	BOL
DEC	1AM	BOL	.110 <T	.060 <T	.140 <T	.130 <T	.080 <T	.080 <T
Cadmium (UG/L)								
DET'N LIMIT = 0.020								
GUIDELINE = 1000 (H)								
JAN	1.600	.320 <T	.310 <T	.330 <T	.330 <T	.340 <T	.480 <T	.330 <T
FEB	.140 <T	.060 <T	.090 <T	.060 <T	.080 <T	.080 <T	.100 <T	.070 <T
MAR	.100 <T	.120 <T	.080 <T	.140 <T	.130 <T	.100 <T	.110 <T	.080 <T
APR	.100 <T	.100 <T	.070 <T	.040 <T	.090 <T	.050 <T	.240 <T	.030 <T
MAY	.070 <T	.100 <T	.070 <T	.060 <T	.110 <T	.090 <T	.230 <T	.090 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS VTP 1968

WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
CHLORINE (MG/L)								
DET'N LIMIT = 0.100								
GUIDELINE = 50. (A1)								
JAN	.110 <T	.100 <T	.080 <T	.090 <T	.100 <T	.070 <T	.100 <T	.090 <T
FEB	.050 <T	.060 <T	.	.	.050 <T	.050 <T	.	.
MAR	.080 <T	.060 <T	.090 <T	.050 <T	.	.	.300 <T	.050 <T
APR	.240 <T	.170 <T	.100 <T	.100 <T	.	.	.110 <T	.260 <T
MAY	.370 <T	.450 <T	.	.	.210 <T	.200 <T	.220 <T	.140 <T
JUN	.220 <T	.090 <T	.	.	.070 <T	.070 <T	.110 <T	.140 <T
JUL	.200 <T	.200 <T	.280 <T	.250 <T	.210 <T	.260 <T	.460 <T	.180 <T
CHLORINE (MG/L)								
JAN	1.500	.290 <T	.290 <T	.260 <T	.410 <T	.330 <T	1.000	.340 <T
FEB	.370 <T	.350 <T	3.200	.320 <T	.350 <T	.270 <T	.850 <T	.330 <T
MAR	.260 <T	.330 <T	1.700	.390 <T	.380 <T	.410 <T	5.000	.840 <T
APR	.290 <T	.340 <T	.610 <T	.660 <T	.480 <T	.410 <T	2.900	.510 <T
MAY	.420 <T	.540 <T	1.100	.810 <T	.680 <T	.600 <T	1.900	1.100
JUN	3.500	.910 <T	.680 <T	.300 <T	.740 <T	.410 <T	5.200	.750 <T
JUL	.260 <T	.350 <T	.	.	.300 <T	.280 <T	.	.
AUG	2.800	3.000	3.300	2.400	.	.	5.900	2.800
SEP	.300 <T	.370 <T	5.100	4.000	.	.	16.000	4.300
OCT	6.200	4.300	.	.	2.200	5.500	7.500	6.300
NOV	3.400	3.100	.	.	1.100	3.500	4.800	6.800
DEC	10.000	10.000	7.800	6.800	6.500	1.600	6.900	6.100
COPPER (MG/L)								
DET'N LIMIT = .100								
GUIDELINE = 1000 (A3)								
JAN	1.900	.940 <T	34.000	2.100	12.000	1.700	38.000	5.600
FEB	1.100	.850 <T	76.000	1.700	8.200	2.400	29.000	3.500
MAR	1.000	1.000	84.000	1.700	8.400	2.100	43.000	5.500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT										DISTRIBUTION SYSTEM									
SITE		SITE 1		SITE 2		SITE 3													
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW											
APR	1.300	.840 <T	51.000	1.600	17.000	1.800	31.000	4.200											
MAY	.990 <T	.800 <T	43.000	1.500	6.700	1.700	49.000	5.400											
JUN	1.000 <T	.810 <T	17.000	1.400	5.700	1.500	43.000	6.000											
JUL	1.200	.910 <T	.	.	4.500	1.300	.	.											
AUG	1.100	.920 <T	19.000	1.600	.	.	25.000	4.900											
SEP	.830 <T	4.900	10.000	1.000 <T	.	.	26.000	4.300											
OCT	1.500	.920 <T	.	.	7.300	1.400	21.000	4.400											
NOV	1.400	.900 <T	.	.	4.400	1.400	29.000	4.500											
DEC	1AM	1.200	25.000	1.800	7.600	1.600	41.000	4.600											
IRON (UG/L)										GUIDELINE = 300. (A3)									
JAN	960.000	8.300 <T	4.600 <T	6.200 <T	6.800 <T	4.900 <T	73.000	78.000 <T											
FEB	130.000	6.500 <T	4.100 <T	5.600 <T	8.200 <T	6.300 <T	54.000	48.000											
MAR	40.000	5.900 <T	13.000 <T	7.400 <T	5.500 <T	4.900 <T	65.000	37.000 <T											
APR	58.000	6.700 <T	8.400 <T	9.100 <T	5.400 <T	6.500 <T	48.000	47.000											
MAY	24.000 <T	15.000 <T	6.200 <T	6.800 <T	BDL	8.300 <T	52.000	38.000 <T											
JUN	25.000 <T	BDL	BDL	BDL	BDL	BDL	87.000	29.000 <T											
JUL	25.000 <T	8.500 <T	.	.	BDL	BDL	.	.											
AUG	30.000 <T	BDL	BDL	BDL	.	.	39.000 <T	9.500 <T											
SEP	22.000 <T	6.800 <T	BDL	BDL	5.200 <T	BDL	26.000 <T	18.000 <T											
OCT	180.000	BDL	.	.	7.200 <T	BDL	35.000 <T	31.000 <T											
NOV	240.000	5.100 <T	.	.	7.200 <T	6.500 <T	67.000	58.000											
DEC	1AM	6.300 <T	BDL	BDL	5.300 <T	7.600 <T	83.000	65.000											
MERCURY (UG/L)										GUIDELINE = 1.000 (A1)									
JAN	.140	.090	.	.010	.	BDL	.	BDL											

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1				SITE 2				SITE 3			
			STANDING		FREE FLOW		STANDING		FREE FLOW		STANDING		FREE FLOW	
JAN	.830	1.200	1.100	1.200	1.200	1.200	1.100	1.200	1.100	1.100	1.100	1.100	1.100	1.100
FEB	1.100	1.200	1.200	1.200	1.100	1.100	1.200	1.200	1.100	1.100	1.200	1.200	1.000	1.000
MAR	1.300	1.300	1.400	1.200	1.200	1.200	1.200	1.200	1.300	1.300	1.200	1.300	1.300	1.300
APR	1.200	1.200	1.100	1.200	1.200	1.200	1.100	1.100	1.100	1.100	.960	1.000	1.000	1.000
MAY	1.100	1.200	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	.990	.990
JUN	1.100	1.000	1.000	1.000	1.000	1.000	1.100	1.100	1.100	1.100	1.000	1.000	1.000	1.000
JUL	1.300	1.200	-	-	-	-	1.200	1.200	1.300	1.300	-	-	-	-
AUG	1.300	1.200	1.300	1.300	1.300	1.300	-	-	-	-	1.200	1.300	1.300	1.300
SEP	1.200	1.100	1.100	1.100	1.100	1.100	-	-	-	-	1.200	1.200	1.200	1.200
OCT	.900	1.100	-	-	-	-	1.100	1.200	1.200	1.200	1.200	1.200	1.100	1.100
NOV	.880	1.200	-	-	-	-	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
DEC	1AW	1.100	1.200	1.200	1.300	1.300	1.200	1.200	1.200	1.200	1.200	1.200	1.100	1.100
NICKEL (UG/L)														
DET'M LIMIT = 0.100						GUIDELINE = 50. (F3)								
JAN	5.300	4.200	4.400	4.400	4.400	4.400	6.200	6.200	4.300	4.300	120.000	120.000	4.300	4.300
FEB	.710 <T	.660 <T	2.000	2.000	.750 <T	.750 <T	2.100	2.100	.760 <T	.760 <T	23.000	23.000	.940 <T	.940 <T
MAR	.650 <T	1.300 <T	3.200	3.200	1.300 <T	1.300 <T	5.200	5.200	.450 <T	.450 <T	6.100	6.100	.870 <T	.870 <T
APR	.370 <T	BOL	.640 <T	.640 <T	BOL	BOL	2.300	2.300	BOL	BOL	130.000	130.000	BOL	BOL
MAY	BOL	BOL	.190 <T	.190 <T	BOL	BOL	1.200 <T	1.200 <T	BOL	BOL	67.000	67.000	BOL	BOL
JUN	.510 <T	.270 <T	.400 <T	.400 <T	BOL	BOL	15.000	15.000	.190 <T	.190 <T	14.000	14.000	.440 <T	.440 <T
JUL	.650 <T	.750 <T	-	-	-	-	8.900	8.900	.560 <T	.560 <T	-	-	-	-
AUG	BOL	BOL	.750 <T	.750 <T	BOL	BOL	-	-	-	-	190.000	190.000	BOL	BOL
SEP	BOL	BOL	1.300 <T	1.300 <T	.190 <T	.190 <T	-	-	-	-	30.000	30.000	BOL	BOL
OCT	2.200	1.400 <T	-	-	-	-	7.600	7.600	1.300 <T	1.300 <T	6.500	6.500	1.800 <T	1.800 <T
NOV	.960 <T	.500 <T	-	-	-	-	1.800 <T	1.800 <T	.840 <T	.840 <T	1.100 <T	1.100 <T	.990 <T	.990 <T
DEC	1AW	1.400 <T	5.000	5.000	1.400 <T	1.400 <T	1.400 <T	1.400 <T	1.500 <T	1.500 <T	82.000	82.000	1.600 <T	1.600 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

SITE		WATER TREATMENT PLANT						DISTRIBUTION SYSTEM					
		RAW	TREATED	SITE 1		SITE 2		SITE 3		SITE 3		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
LEAD (UG/L)		GUIDELINE = 50. (A1)											
		DET'N LIMIT = 0.050											
JAN		.630	.030 <T	3.900	.280	.600	.050 <T	1.100	.050 <T	1.100	.200 <T		
FEB		.160 <T	BDL	7.400	.180 <T	.500	.060 <T	.630	.060 <T	.630	.100 <T		
MAR		.150 <T	.080 <T	7.900	.240	.360	.130 <T	1.200	.130 <T	1.200	.120 <T		
APR		.250	.040 <T	4.100	.170 <T	.860	.050 <T	.770	.050 <T	.770	.170 <T		
MAY		.100 <T	.070 <T	4.100	.190 <T	.340	.070 <T	1.100	.070 <T	1.100	.130 <T		
JUN		.070 <T	BDL	3.300	.220	.800	.110 <T	1.300	.110 <T	1.300	.270		
JUL		.090 <T	BDL			1.000	.100 <T						
AUG		.070 <T	BDL	4.800	.280								
SEP		BDL	.190 <T	2.800	.130 <T			1.200	.150 <T	.880	.150 <T		
OCT		.650	.100 <T					.790	.100 <T	.810	.160 <T		
NOV		.730	BDL			.440	.100 <T						
DEC		IAW	.140 <T	7.700	.260	1.100	.100 <T	.910	.100 <T				
ANTHONY (UG/L)		GUIDELINE = 146. (D4)											
		DET'N LIMIT = .050											
JAN		.210	.190 <T	.220	.200	.230	.220	.250	.220	.250	.220		
FEB		.200	.200	.260	.230	.190 <T	.240	.210	.240	.210	.210		
MAR		.250	.220	.250	.200	.210	.200	.210	.200	.210	.240		
APR		.230	.220	.200 <T	.180 <T	.230	.170 <T	.160 <T	.170 <T	.160 <T	.210		
MAY		.210	.220	.210	.220	.220	.180 <T	.200 <T	.180 <T	.200 <T	.200 <T		
JUN		.180 <T	.200 <T	.210	.220	.220	.220	.220	.220	.220	.190 <T		
JUL		.240	.230			.220	.220						
AUG		.480	.610	.840	.770			.840		.840	.750		
SEP		1.200	.820	.540	.510			.620		.620	.840		
OCT		.470	1.100			.650	.550	.600	.550	.600	.560		
NOV		.420	.550			.600	.570	.530	.570	.530	.610		
DEC		IAW	.270	.310	.280	.190 <T	.780	.670	.780	.670	.440		

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

DISTRIBUTION SYSTEM									
WATER TREATMENT PLANT									
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		FREE FLOW
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
SELENIUM (UG/L)			DET'N LIMIT = 0.200		GUIDELINE = 10. (A1)				
	JAN	.220 <T	.760 <T	1.000 <T	.980 <T	.760 <T	1.300 <T	.890 <T	1.100 <T
	FEB	.500 <T	1.000 <T	.670 <T	1.100 <T	1.400 <T	1.000 <T	1.300 <T	1.100 <T
	MAR	.710 <T	.520 <T	1.100 <T	1.200 <T	1.200 <T	1.100 <T	.790 <T	1.200 <T
	APR	1.800 <T	1.300 <T	3.300 <T	1.300 <T	1.300 <T	2.300 <T	.570 <T	2.000 <T
	MAY	.350 <T	1.600 <T	1.200 <T	.720 <T	1.600 <T	1.000 <T	2.000 <T	1.400 <T
	JUN	.750 <T	1.200 <T	1.400 <T	.780 <T	BDL	.350 <T	1.200 <T	1.600 <T
	JUL	1.500 <T	1.800 <T	-	-	2.200 <T	1.700 <T	-	-
	AUG	1.700 <T	.980 <T	1.100 <T	.690 <T	-	-	BDL	.820 <T
	SEP	BDL	BDL	BDL	BDL	-	-	BDL	.450 <T
	OCT	.390 <T	2.200 <T	-	-	4.200 <T	4.200 <T	1.600 <T	3.300 <T
	NOV	BDL	1.600 <T	-	-	2.000 <T	3.100 <T	.500 <T	1.000 <T
	DEC	1AW	3.800 <T	2.900 <T	4.800 <T	2.800 <T	2.000 <T	1.700 <T	2.800 <T
STRONTIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = 2000.(H)				
	JAN	170.000	160.000	160.000	160.000	160.000	160.000	160.000	160.000
	FEB	170.000	170.000	170.000	170.000	170.000	170.000	170.000	170.000
	MAR	180.000	180.000	180.000	180.000	170.000	170.000	170.000	170.000
	APR	160.000	150.000	150.000	150.000	150.000	150.000	140.000	140.000
	MAY	160.000	160.000	160.000	150.000	160.000	160.000	160.000	160.000
	JUN	160.000	150.000	150.000	150.000	150.000	160.000	150.000	150.000
	JUL	160.000	160.000	-	-	160.000	180.000	-	-
	AUG	170.000	170.000	170.000	180.000	-	-	180.000	180.000
	SEP	150.000	150.000	160.000	150.000	-	-	170.000	170.000
	OCT	170.000	150.000	-	-	150.000	150.000	150.000	160.000
	NOV	160.000	160.000	-	-	150.000	150.000	150.000	160.000
	DEC	1AW	150.000	150.000	150.000	150.000	160.000	160.000	160.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS UTP 1988

SITE		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
		RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
TITANIUM (UG/L)		GUIDELINE = N/A							
		DET'N LIMIT = .050							
JAN	28.000		2.900	2.800	2.600	2.700	2.400	1.800	1.800
FEB	7.700		3.500	3.500	3.400	3.500	3.300	3.400	3.500
MAR	4.000		2.300	2.100	2.000	2.000	1.900	2.100	1.800
APR	2.700		1.200 <T	1.200 <T	1.300 <T	1.500 <T	1.800	1.300 <T	1.300 <T
MAY	7.300		6.800	7.000	7.000	6.900	6.800	6.900	7.400
JUN	2.900		2.700	3.000	2.700	2.900	2.800	3.100	2.600
JUL	2.800		2.400			1.300 <T	1.400 <T		
AUG	9.500		8.800	8.000	8.300			8.300	8.600
SEP	6.100		4.800	4.700	4.800			4.700	4.900
OCT	6.600		2.500			2.500	2.300	3.300	2.700
NOV	7.000		3.900			3.500	3.800	3.600	3.700
DEC	1AM		2.200	2.200	2.200	2.500	2.300	2.400	2.400
THALLIUM (UG/L)		GUIDELINE = 13. (04)							
		DET'N LIMIT = .010							
JAN	BOL		BOL	.010 <T	BOL	BOL	BOL	.030 <T	.020 <T
FEB	.020 <T		.010 <T	.030 <T	BOL	.010 <T	.010 <T	BOL	.010 <T
MAR	.010 <T		BOL	BOL	BOL	.010 <T	BOL	BOL	BOL
APR	.060 <T		BOL	.020 <T	BOL	.030 <T	BOL	.020 <T	BOL
MAY	BOL		BOL	BOL	BOL	BOL	BOL	BOL	BOL
JUN	BOL		BOL	BOL	.020 <T	.030 <T	.020 <T	.020 <T	BOL
JUL	.020 <T		.030 <T			.020 <T	.020 <T		
AUG	.020 <T		BOL	BOL	.020 <T			BOL	BOL
SEP	.020 <T		BOL	.020 <T	BOL		.020 <T	.030 <T	BOL
OCT	BOL		BOL			.020 <T		BOL	BOL
NOV	.020 <T		BOL				.020 <T	.020 <T	BOL
DEC	1AM		BOL	BOL		BOL	BOL	BOL	BOL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

DISTRIBUTION SYSTEM									
WATER TREATMENT PLANT									
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
URANIUM (UG/L)			DET'N LIMIT = .020		GUIDELINE = 20. (A2)				
JAN	.450	.280	.220	.270	.290	.260	.320	.270	
FEB	.460	.320	.290	.260	.340	.300	.270	.280	
MAR	.410	.290	.310	.300	.280	.280	.280	.240	
APR	.310	.200 <T	.180 <T	.240	.280	.250	.230	.220	
MAY	.300	.240	.250	.240	.220	.210	.220	.220	
JUN	.340	.310	.280	.270	.310	.290	.280	.290	
JUL	.380	.320	.	.	.290	.290	.	.	
AUG	.340	.320	.300	.270	.	.	.320	.310	
SEP	.310	.240	.260	.220	.	.	.330	.280	
OCT	.410	.250	.	.	.260	.270	.240	.240	
NOV	.370	.310	.	.	.310	.270	.190 <T	.250	
DEC	1M	.220	.210	.230	.230	.290	.250	.210	
VANADIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = 100 (H)				
JAN	1.700	.570	.600	.570	.570	.500 <T	.380 <T	.370 <T	
FEB	.340 <T	.390 <T	.420	.410	.390 <T	.330 <T	.210 <T	.210 <T	
MAR	.200 <T	.370 <T	.370 <T	.390 <T	.370 <T	.400	.230 <T	.220 <T	
APR	.090 <T	.330 <T	.300 <T	.270 <T	.270 <T	.220 <T	.170 <T	.150 <T	
MAY	.110 <T	.430 <T	.430 <T	.420 <T	.420 <T	.390 <T	.250 <T	.240 <T	
JUN	.130 <T	.390 <T	.410 <T	.410 <T	.380 <T	.360 <T	.480 <T	.270 <T	
JUL	.210 <T	.630	.	.	.570	.580	.	.	
AUG	.220 <T	.590	.570	.590	.	.	.520	.490 <T	
SEP	.270 <T	.540	.580	.570	.	.	.540	.460 <T	
OCT	.550	.580	.	.	.590	.630	.490 <T	.490 <T	
NOV	.410 <T	.550	.	.	.510	.530	.360 <T	.320 <T	
DEC	1M	.520	.550	.460 <T	.550	.690	.430 <T	.460 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

SITE TYPE	RAW	TREATED	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
			SITE 1		SITE 2		SITE 3			
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
			GUIDELINE = 5000. (A3)							
ZINC (UG/L)			DET'N LIMIT = .001							
JAN	5.900	.750 <T	15.000	1.300	10.000	1.400	54.000	4.000		
FEB	1.700	.720 <T	43.000	1.000	6.100	.840 <T	35.000	1.600		
MAR	1.000	1.000	53.000	.870 <T	2.800	.870 <T	42.000	2.100		
APR	2.300	1.400	27.000	1.200	8.000	1.400	54.000	2.500		
MAY	.850 <T	1.100	27.000	1.100	4.400	.970 <T	54.000	3.200		
JUN	.740 <T	.720 <T	26.000	1.000 <T	5.800	1.100	35.000	3.200		
JUL	.310 <T	.150 <T			5.700	.730 <T				
AUG	.660 <T	.750 <T	26.000	1.300			35.000	2.300		
SEP	1.100	4.200	17.000	1.200			28.000	2.600		
OCT	2.400	.740 <T			6.600	1.100	20.000	2.300		
NOV	2.700	.610 <T			4.200	1.200	19.000	3.000		
DEC	1AM	1.300	45.000	2.400	7.000	1.600	61.000	2.900		

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM						
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		FREE FLOW			
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW				
CHLOROMATICS												
HEXACHLOROCYCLOPENTADIENE (UG/L)												
			DET'N LIMIT = 1,000			GUIDELINE = 450 (D4)						
JAN	NDL	NDL	*	NDL	*	NDL	*	NDL	NDL			
FEB	NDL	NDL	*	NDL	*	NDL	*	NDL	NDL			
MAR	ICS	NDL	*	NDL	*	NDL	*	NDL	NDL			
APR	NDL	NDL	*	NDL	*	NDL	*	NDL	NDL			
MAY	NDL	NDL	*	NDL	*	NDL	*	NDL	NDL			
JUN	NDL	NDL	*	NDL	*	NDL	*	NDL	NDL			
JUL	NDL	NDL	*	*	*	NDL	*	NDL	*			
AUG	NDL	NDL	*	NDL	*	*	*	NDL	NDL			
SEP	NDL	NDL	*	3,000 <T	*	*	*	*	2,000 <T			
OCT	NDL	NDL	*	*	*	NDL	*	NDL	NDL			
NOV	NDL	NDL	*	*	*	NDL	*	NDL	NDL			
DEC	NDL	NDL	*	NDL	*	NDL	*	NDL	NDL			

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1986

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PESTICIDES & PCB								
ALPHA BHC (UG/L)			DET'N LIMIT = 1,000		GUIDELINE = 750 (G)			
JAN	1,000 <T	1,000 <T	•	1,000 <T	•	MDL	•	MDL
FEB	2,000 <T	MDL	•	MDL	•	MDL	•	MDL
MAR	ICS	2,000 <T	•	MDL	•	2,000 <T	•	2,000 <T
APR	1,000 <T	MDL	•	1,000 <T	•	2,000 <T	•	2,000 <T
MAY	1,000 <T	2,000 <T	•	2,000 <T	•	2,000 <T	•	1,000 <T
JUN	1,000 <T	1,000 <T	•	1,000 <T	•	2,000 <T	•	MDL
JUL	MDL	2,000 <T	•	•	•	MDL	•	•
AUG	1,000 <T	2,000 <T	•	2,000 <T	•	•	•	1,000 <T
SEP	1,000 <T	MDL	•	1,000 <T	•	•	•	MDL
OCT	1,000 <T	1,000 <T	•	•	•	MDL	•	MDL
NOV	MDL	MDL	•	•	•	MDL	•	MDL
DEC	1,000 <T	1,000 <T	•	2,000 <T	•	1,000 <T	•	1,000 <T
LINDANE (UG/L)			DET'N LIMIT = 1,000		GUIDELINE = 4,000 (AT)			
JAN	MDL	MDL	•	MDL	•	MDL	•	MDL
FEB	MDL	MDL	•	MDL	•	MDL	•	MDL
MAR	ICS	MDL	•	MDL	•	MDL	•	1,000 <T
APR	MDL	MDL	•	1,000 <T	•	MDL	•	MDL
MAY	MDL	MDL	•	MDL	•	MDL	•	MDL
JUN	MDL	MDL	•	MDL	•	1,000 <T	•	MDL
JUL	MDL	MDL	•	•	•	MDL	•	•
AUG	MDL	MDL	•	MDL	•	•	•	MDL
SEP	MDL	MDL	•	MDL	•	•	•	MDL
OCT	MDL	MDL	•	•	•	MDL	•	MDL
NOV	MDL	MDL	•	•	•	MDL	•	MDL

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

SITE TYPE	RAW	TREATED	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
			SITE 1		SITE 2		SITE 3			
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	ML	ML	*	ML	*	ML	*	ML	*	ML

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1983

		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		FREE FLOW	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW		
PHENOLICS										
PHENOLICS (UG/L)										
DET'N LIMIT = 0.2										
GUIDELINE = 2.00 (A3)										
JAN	.600 <T	.600 <T	.	.	.	.	.	.	.	
FEB	.600 <T	1.000 <T	.	.	.	.	.	.	.	
MAR	BDL	BDL	.	.	.	.	.	.	.	
APR	BDL	BDL	.	.	.	.	.	.	.	
MAY	BDL	BDL	.	.	.	.	.	.	.	
JUN	1.200	2.200	.	.	.	.	.	.	.	
JUL	.800 <T	.400 <T	.	.	.	.	.	.	.	
AUG	1.400	.800 <T	.	.	.	.	.	.	.	
SEP	.400 <T	.200 <T	.	.	.	.	.	.	.	
OCT	1.000 <T	.800 <T	.	.	.	.	.	.	.	
NOV	1.200	1.000	.	.	.	.	.	.	.	
DEC	1.000	1.000	.	.	.	.	.	.	.	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT										DISTRIBUTION SYSTEM			
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW					
VOLATILES													
BENZENE (UG/L)		DET'M LIMIT = .050 GUIDELINE = 5.0 (81)											
JAN	NDL	NDL	.	NDL	.	NDL	.	NDL	.	.050 <T	.	NDL	NDL
MAR	NDL	NDL	.	NDL	.	NDL	.	NDL	.	NDL	.	NDL	NDL
APR	NDL	NDL	.	NDL	.	NDL	.	NDL	.	NDL	.	NDL	NDL
MAY	.050 <T	NDL	.	NDL	.	NDL	.	NDL	.	NDL	.	NDL	NDL
JUN	NDL	NDL	.	NDL	.	NDL	.	NDL	.	.050 <T	.	NDL	NDL
JUL	NDL	NDL	.	.	.	.	.	.	.	NDL	.	.	.100 <T
AUG	NDL	NDL	.	NDL	.	NDL	.	.	.	.	.	NDL	NDL
SEP	NDL	NDL	.	NDL	.	NDL	.	.	.	NDL	.	NDL	NDL
OCT	NDL	NDL	.	.	.	.	.	NDL	.	NDL	.	NDL	NDL
NOV	NDL	NDL	.	.	.	.	.	NDL	.	NDL	.	NDL	NDL
DEC	NDL	NDL	.	NDL	.	NDL	.	NDL	.	NDL	.	NDL	NDL
VOLATILES													
TOLUENE (UG/L)		DET'M LIMIT = .050 GUIDELINE = 24.0 (84)											
JAN	NDL	NDL	.	NDL	.	NDL	.	NDL	.	.200 UCS	.	NDL	NDL
MAR	NDL	NDL	.	NDL	.	NDL	.	NDL	.	NDL	.	NDL	NDL
APR	NDL	.100 UCS	.	NDL	.	NDL	.	NDL	.	.100 UCS	.	NDL	NDL
MAY	NDL	NDL	.	NDL	.	NDL	.	NDL	.	NDL	.	NDL	NDL
JUN	NDL	NDL	.	.	.	.100 <T	.	.100 <T	.	.100 <T	.	.100 <T	.100 <T
JUL	NDL	.100 <T	.	.	.	.	.	.	.	.050 <T	.	.	.
AUG	.050 <T	.100 <T	.	.	.	.200 <T	.	.200 <T	.	.	.	.150 <T	.150 <T
SEP	NDL	NDL	.	NDL	.	.050 <T	.	.050 <T	.	.	.	NDL	NDL
OCT	NDL	NDL	.	.	.	.	.	NDL	.	NDL	.	NDL	NDL
NOV	NDL	.100 <T	.	.	.	.	.	.100 <T	.	.100 <T	.	.100 <T	.100 <T
DEC	NDL	.150 <T	.	.	.	NDL	.	NDL	.	.100 <T	.	.100 <T	.100 <T

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

SITE TYPE	RAW	SITE 1		SITE 2		SITE 3	
		TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING
ETHYLBENZENE (UG/L)							
			DET'M LIMIT = .050	GUIDELINE = 2.4 (84)			
JAN	BOL	.050 <T		.200 <T		.050 <T	BOL
MAR	BOL	BOL		BOL		BOL	BOL
APR	BOL	.050 <T		BOL		.100 <T	.050 <T
MAY	.100 <T	.150 <T		BOL		.050 <T	.050 <T
JUN	BOL	BOL		.100 <T		.100 <T	.050 <T
JUL	BOL	.100 <T				.150 <T	
AUG	BOL	.050 <T		.100 <T			.050 <T
SEP	BOL	BOL		BOL			BOL
OCT	BOL	BOL				BOL	.050 <T
NOV	BOL	BOL				.050 <T	BOL
DEC	BOL	.050 <T		BOL		.050 <T	.050 <T
P-XYLENE (UG/L)							
			DET'M LIMIT = .100	GUIDELINE = 300 (84)			
JAN	BOL			BOL		BOL	BOL
MAR	BOL			BOL		BOL	BOL
APR	BOL			BOL		BOL	BOL
MAY				BOL		BOL	BOL
JUN	BOL			.100		.100	BOL
JUL	BOL					BOL	BOL
AUG	BOL			BOL			BOL
SEP	BOL			BOL			BOL
OCT	BOL					BOL	BOL
NOV	BOL					BOL	BOL
DEC	BOL			BOL		BOL	BOL
M-XYLENE (UG/L)							
			DET'M LIMIT = .100	GUIDELINE = 300 (84)			

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS UTP 1980

		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
JAN	BDL	BDL	.	BDL	.	BDL	.	BDL	
MAR	BDL	BDL	.	BDL	.	BDL	.	BDL	
APR	BDL	BDL	.	BDL	.	BDL	.	BDL	
MAY	.100 <T	BDL	.	BDL	.	BDL	.	BDL	
JUN	BDL	BDL	.	.100 <T	.	.100 <T	.	BDL	
JUL	BDL	BDL	.	.	.	BDL	.	.	
AUG	BDL	.100 <T	.	.200 <T	.	.	.	BDL	
SEP	BDL	BDL	.	BDL	.	.	.	BDL	
OCT	BDL	BDL	.	.	.	BDL	.	BDL	
NOV	BDL	BDL	.	.	.	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	.	BDL	.	BDL	
O-XYLENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 300 (84)					
JAN	BDL	BDL	.	BDL	.	BDL	.	BDL	
MAR	BDL	BDL	.	BDL	.	BDL	.	BDL	
APR	BDL	BDL	.	BDL	.	BDL	.	BDL	
MAY	BDL	BDL	.	BDL	.	BDL	.	BDL	
JUN	BDL	BDL	.	.050 <T	.	BDL	.	BDL	
JUL	BDL	.050 <T	.	.	.	.050 <T	.	.	
AUG	BDL	.050 <T	.	.100 <T	.	.	.	BDL	
SEP	BDL	BDL	.	BDL	.	.	.	BDL	
OCT	BDL	BDL	.	.	.	BDL	.	BDL	
NOV	BDL	BDL	.	.	.	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	.	BDL	.	BDL	
STYRENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 46.5 (02)					
OCT	.200 <T	.100 <T	.	.	.	.250 <T	.	.250 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

WATER TREATMENT PLANT										DISTRIBUTION SYSTEM									
SITE		RAW		TREATED		SITE 1		SITE 2		SITE 3									
TYPE						STANDING		FREE FLOW		STANDING		FREE FLOW		STANDING		FREE FLOW			
NOV		.150 <T		.150 <T		.		.		.350 <T		.		.300 <T					
DEC		BDL		.050 <T		.		.150 <T		.200 <T		.		.200 <T					
CHLOROFORM (UG/L)										GUIDELINE = 350 (A1+)									
JAN		BDL		13.200		.		12.900		6.200		.		9.100					
MAR		BDL		13.900		.		14.000		15.400		.		7.800					
APR		BDL		15.200		.		14.100		15.500		.		11.900					
MAY		BDL		16.700		.		15.500		13.800		.		11.100					
JUN		BDL		18.800		.		18.500		18.500		.		14.200					
JUL		BDL		16.700		.		.		16.500		.		.					
AUG		.500 <T		19.900		.		18.100		.		.		17.800					
SEP		BDL		14.100		.		13.900		.		.		13.300					
OCT		.100 <T		18.600		.		.		17.500		.		14.600					
NOV		BDL		13.500		.		.		11.800		.		10.300					
DEC		BDL		15.600		.		12.700		14.400		.		9.800					
1111, TRICHLOROETHANE (UG/L)										GUIDELINE = 200 (D1)									
JAN		BDL		BDL		.		BDL		BDL		.		.060 <T					
MAR		BDL		BDL		.		BDL		BDL		.		BDL					
APR		BDL		BDL		.		BDL		BDL		.		BDL					
MAY		.100 <T		BDL		.		BDL		BDL		.		BDL					
JUN		BDL		BDL		.		BDL		BDL		.		BDL					
JUL		BDL		BDL		.		BDL		BDL		.		BDL					
AUG		BDL		BDL		.		BDL		BDL		.		BDL					
SEP		.260		BDL		.		BDL		BDL		.		BDL					
OCT		BDL		BDL		.		BDL		BDL		.		BDL					

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1968

SITE TYPE	RAW	TREATED	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
			SITE 1		SITE 2		SITE 3			
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NOV	BDL	BDL	.	.	.	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL	.	BDL	.	BDL
DICHLOROMETHANE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 350 (A1+)					
JAN	BDL	9.400	.	9.250	.	5.250	.	5.250	.	6.550
MAR	BDL	10.900	.	10.700	.	11.400	.	11.400	.	7.800
APR	BDL	10.750	.	10.150	.	10.650	.	10.650	.	8.400
MAY	BDL	11.000	.	9.950	.	9.450	.	9.450	.	7.650
JUN	BDL	9.150	.	11.250	.	11.350	.	11.350	.	8.900
JUL	BDL	11.300	.	.	.	10.900	.	10.900	.	.
AUG	.350 <T	14.200	.	13.200	.	.	.	.	.	13.200
SEP	BDL	10.250	.	9.700	.	.	.	.	.	9.400
OCT	BDL	12.150	.	.	.	11.150	.	11.150	.	9.850
NOV	BDL	10.550	.	.	.	9.150	.	9.150	.	7.800
DEC	BDL	10.450	.	9.250	.	10.200	.	10.200	.	7.450
CHLORODIBROMOMETHANE (UG/L)			DET'N LIMIT = .100		GUIDELINE = 350 (A1+)					
JAN	BDL	4.400	.	4.300	.	3.000	.	3.000	.	3.100
MAR	BDL	6.700	.	6.600	.	6.100	.	6.100	.	4.000
APR	BDL	5.500	.	5.400	.	5.300	.	5.300	.	4.000
MAY	BDL	4.700	.	4.400	.	4.400	.	4.400	.	3.600
JUN	BDL	4.900	.	5.100	.	5.300	.	5.300	.	4.700
JUL	BDL	6.300	.	.	.	5.900	.	5.900	.	.
AUG	.200 <T	10.100	.	7.000	.	.	.	.	.	6.600
SEP	BDL	6.800	.	5.000	.	.	.	.	.	5.700
OCT	BDL	6.800	.	.	.	4.900	.	4.900	.	4.700

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1988

		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
NOV	BOL	6.500	.	.	.	4.600	.	3.700	
DEC	BOL	4.500	.	4.200	.	4.600	.	3.100	
BROMOFORM (UG/L)			DET'N LIMIT = .200		GUIDELINE = 350 (A1+)				
JAN	BOL	.400 <T	.	.400 <T	.	.200 <T	.	.200 <T	
MAR	BOL	.400 <T	.	.400 <T	.	.400 <T	.	.400 <T	
APR	BOL	.400 <T	.	.400 <T	.	.400 <T	.	.400 <T	
MAY	BOL	.400 <T	.	.400 <T	.	.400 <T	.	.400 <T	
JUN	BOL	.400 <T	.	.400 <T	.	.400 <T	.	.400 <T	
JUL	BOL	.600 <T	.	.400 <T	.	.600 <T	.	.400 <T	
AUG	BOL	.800 <T	.	1.000 <T	.	.600 <T	.	.800 <T	
SEP	BOL	.800 <T	.	.800 <T	.	.	.	.800 <T	
OCT	BOL	.600 <T	.	.	.	.600 <T	.	.600 <T	
NOV	BOL	.600 <T	.	.	.	.600 <T	.	.600 <T	
DEC	BOL	.400 <T	.	.400 <T	.	.400 <T	.	.400 <T	
1,2 DICHLOROBENZENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 200 (B1)				
JAN	BOL	BOL	.	BOL	.	BOL	.	BOL	
MAR	BOL	BOL	.	BOL	.	BOL	.	.100 <T	
APR	BOL	BOL	.	BOL	.	BOL	.	BOL	
MAY	BOL	BOL	.	BOL	.	BOL	.	BOL	
JUN	BOL	BOL	.	BOL	.	BOL	.	BOL	
JUL	BOL	BOL	.	.	.	BOL	.	BOL	
AUG	BOL	BOL	.	BOL	.	.	.	.	
SEP	BOL	BOL	.	BOL	.	.	.	BOL	
OCT	BOL	BOL	.	BOL	.	.	.	BOL	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NIAGARA FALLS WTP 1983

			WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3			
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW		
NOV	BDL	BDL	.	.	.	BDL	.	BDL		
DEC	BDL	BDL	.	BDL	.	BDL	.	BDL		
TOTAL TRINALONETAMES (UG/L)			DET'N LIMIT = .500		GUIDELINE = 350 (A1)					
JAN	BDL	27.400	.	26.850	.	14.650	.	18.950		
MAR	BDL	31.900	.	31.700	.	33.300	.	19.000		
APR	BDL	31.850	.	30.050	.	31.850	.	24.700		
MAY	BDL	32.800	.	30.250	.	28.050	.	22.750		
JUN	BDL	33.250	.	35.250	.	35.750	.	28.200		
JUL	BDL	34.900	.	.	.	33.900	.	.		
AUG	1.050 <T	45.000	.	39.300	.	.	.	38.400		
SEP	BDL	31.950	.	29.400	.	.	.	29.200		
OCT	BDL	38.150	.	.	.	34.150	.	29.750		
NOV	BDL	31.150	.	.	.	26.150	.	22.200		
DEC	BDL	30.950	.	26.550	.	29.600	.	20.750		

Table 6

SCAN/PARAMETER	UNIT	DETECTION	
		LIMIT	GUIDELINE
BACTERIOLOGICAL			
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0	500/ML(A1)
P/A BOTTLE		0	0 (A1*)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	MG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,8-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	5000. (B1)
PENTACHLOROPHENOL	NG/L	50.	60000. (B1)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5(A4)
FIELD TEMPERATURE	°C	N/A	<15 °C(A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500(A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20(A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100(A4)
MAGNESIUM	MG/L	.05	30. (F2)

SCAN/PARAMETER	UNIT	DETECTION	
		LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMS/LESS	N/A	6.5-8.5 (A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40 (F2)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)

METALS

ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	146. (D4)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)

PHENOLICS

PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
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PESTICIDES & PCB

ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE (LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADIX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	100000. (A1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE (THIODAN SULPHATE)	NG/L	4.0	N/A
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)

SCAN/PARAMETER	DETECTION		
	UNIT	LIMIT	GUIDELINE
HEPTACHLOR	NG/L	1.0	3000. (A1)
METOLACHLOR	NG/L	500.	50000. (B3)
MIREX	NG/L	5.0	N/A
OXYCHLORDANE	NG/L	2.0	N/A
O,P-DDT	NG/L	5.0	30000. (A1)
PCB	NG/L	20.0	3000. (A2)
O,P-DDD	NG/L	5.0	N/A
PPDDE	NG/L	1.0	30000. (A1)
PPDDT	NG/L	5.0	30000. (A1)
ATRATONE	NG/L	50.	N/A
ALACHLOR	NG/L	500.	35000. (D2)
PROMETONE	NG/L	50.	52500. (D3)
PROPAZINE	NG/L	50.	16000. (D2)
PROMETRYNE	NG/L	50.	1000. (B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000. (B2)
SIMAZINE	NG/L	50.	10000. (B3)

POLYAROMATIC HYDROCARBONS

PHENANTHRENE	NG/L	10.0	N/A
ANTHRACENE	NG/L	1.0	N/A
FLUORANTHENE	NG/L	20.0	42000. (D4)
PYRENE	NG/L	20.0	N/A
BENZO(A)ANTHRACENE	NG/L	20.0	N/A
CHRYSENE	NG/L	50.0	N/A
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A
BENZO(K)PYRENE	NG/L	50.0	N/A
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A
PERYLENE	NG/L	10.0	N/A
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A
BENZO(A)PYRENE	NG/L	5.0	10. (B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A
BENZO(B)CHRYSENE	NG/L	2.0	N/A
CORONENE	NG/L	10.0	N/A

SPECIFIC PESTICIDES

TOXAPHENE	NG/L	N/A	5000. (A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	280000. (B1)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000. (A1)
2,4-DICHLOROPHENOXYBUTYRIC ACID	NG/L	200.	18000. (B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A
DICAMBA	NG/L	100.	87000. (B3)
PICHLORAM	NG/L	100.	2450000. (D3)
SILVEK (2,4,5-TP)	NG/L	50.	10000. (A1)
DIAINON	NG/L	20.	14000. (A1)
DICHLOROVOS	NG/L	20.	N/A
DURBAN	NG/L	20.	N/A
ETHION	NG/L	20.	35000. (G)
GUTHION	NG/L	N/A	N/A
MALATHION	NG/L	20.	160000. (G)
MEVINPHOS	NG/L	20.	N/A
METHYL PARATHION	NG/L	50.	7000. (B3)
METHYLTRITHION	NG/L	20.	N/A
PARATHION	NG/L	20.	35000. (B1)

SCAN/PARAMETER	DETECTION		
	UNIT	LIMIT	GUIDELINE
PHORATE (THIMET)	MG/L	20.	35. (D2)
RELDAN	MG/L	20.	N/A
RONNEL	MG/L	20.	N/A
AMINOCARB	MG/L	N/A	N/A
BENOMYL	MG/L	N/A	N/A
BUX (METALANATE)	MG/L	2000.	N/A
CARBOFURAN	MG/L	2000.	18000. (D3)
CICP (CHLORPROPHAM)	MG/L	2000.	350000. (G)
DIALLATE	MG/L	2000.	30000. (H)
EPTAM	MG/L	2000.	N/A
IPC	MG/L	2000.	N/A
PROPOXUR (DAYGON)	MG/L	2000.	90000. (G)
SEVIN (CARBARYL)	MG/L	200.	70000. (A1)
SUTAN (BUTYLATE)	MG/L	2000.	245000. (D3)

VOLATILES

BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHYLENE DIBROMIDE	UG/L	.05	50. (G)
METHYLENE CHLORIDE	UG/L	.500	1750. (D3)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	350. (D3)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (D1)
1,2-DICHLOROPROPANE	UG/L	.050	10.0 (G)
TRICHLOROETHYLENE	UG/L	.100	5.0 (D1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60 (D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17 (D4)
CHLOROBENZENE	UG/L	.100	1510. (D3)
1,4-DICHLOROBENZENE	UG/L	.100	5.0 (B1)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	200. (B1)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	46.5 (D2)